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The Maritime Master Plan A Plan for the Waters of Baltimore's Harbor

EXECUTIVE SUMMARY

BACKGROUND

Baltimore's Harbor is one of our greatest jewels, attracting millions of visitors each year from across the region and around the world. The Harbor has always been a central force in Baltimore history, functioning as a major port for international shipping and boat building for almost 300 years. Its history as a working port began changing during the 1950's, when American industry began to move abroad and fundamental changes occurred in the structure of commercial shipping. In the early 70's, the Harbor's beauty and vitality began to attract developers, residents, tourists and recreational boaters in ever-increasing numbers. And yet the Harbor continues to hold on to its history as well, providing precious deep-water resources to viable commercial shipping businesses. As all of these interests increasingly competed for the same limited resource in the 1980's, it became evident that a balance had to be struck to allow each of these economic development generators to coexist on the water, while maximizing safety. The Marina Master Plan was originally created in 1985 and updated in 1989 to provide a framework for responsible management of the Harbor. Its goal was to allow access to the water by recreational boaters while protecting and allowing for growth of the commercial shipping industry in Baltimore's Harbor; and to accomplish these while maximizing navigational safety for all users of the Harbor.

More than ten years have passed since the Marina Master Plan was last revised. Development talked about in that plan is either completed or has long since been abandoned. The Harbor's popularity has continued to grow, causing even further congestion than there was a decade ago. The demands on the Harbor have gone far beyond traditional recreational boating, to include requests for tourism and transportation by large excursion vessels, historic ships, seaplanes and helicopters, kayaks and canoes, and personal watercraft (such as ski-doo's). At the same time, it is critical that commercial shipping keeps its hold on deep-water areas and waterfront commerce. Management of the many interests at the water's edge has become of paramount importance to the City's well being. Realizing the need to take a fresh look at the Harbor's future, Mayor Martin O'Malley charged the Planning Department with updating the Marina Master Plan. In order to provide expertise regarding the technical aspects of navigation and boating, the Planning Department re-activated the Technical Advisory Committee (TAC), an advisory committee of marine professionals. Membership of the TAC included marine professionals such as the United States Army Corps of Engineers, the United States Coast Guard, the Maryland Port Administration, commercial and recreational boating representatives, water-based business owners, appropriate City agencies, and others.

GOALS AND OBJECTIVES

The Planning Department, in consultations with the TAC, reviewed existing conditions at the Harbor using a comprehensive boat survey, interviews with knowledgeable parties, and their own personnel expertise and experience. Using this information, the Planning Department

updated the goals and objectives to reflect the new conditions at the Harbor. The new Goals and Objectives are as follows:

Provide a framework for the safe and environmentally responsible management of competing interests in Baltimore's Harbor in order to control growth of the recreational boating industry while protecting the integrity and growth of commercial shipping and industry in the Port of Baltimore.

A number of very specific objectives stem from this overall goal which include:

Recreational Boating/Commercial Shipping

- Separate commercial and recreational activities in the Harbor to the extent necessary and possible.
- ♦ Consider the appropriate boat slip capacity and recommend a maximum for each site.
- Minimize the potential for boating accidents.
- ♦ Minimize congestion.
- ♦ Safeguard areas of present and future commercial port development.
- ◆ Optimize economic benefit to the City of both recreational boating and commercial shipping.
- ♦ Accommodate repair, service and storage facilities for recreational and commercial vessels.
- Promote programs that educate recreational boaters about commercial shipping and boating safety.
- ♦ Develop appropriate criteria for location and design of marinas and other recreational boating activities and tourist activities.

Related priorities:

- Preserve water access and water views.
- ◆ Protect the environment from pollutants and ensure State and federal regulations are adhered to in a manner consistent with the unique characteristics of the Harbor.
- Protect the proper operation of and accessibility to storm drains and other utilities.
- Provide adequate access for police and fire services.
- ♦ Assure adequate parking and other land-side needs.
- ♦ Define management responsibilities for the Harbor and management tools for special events.
- Evaluate appropriateness of seaplanes and heliports on the water.
- Develop and adopt appropriate regulations to enforce the rules of navigational safety and management of the Harbor area.
- ◆ Propose additional appropriate uses for the currently-underutilized Middle Branch of the Patapsco River.
- Optimize economic benefits to the City of both recreational boating and commercial shipping.

SPECIFIC AREAS TO BE UPDATED

- ♦ Docking locations for water shuttles
- Small water craft such as kayaks, canoes and paddle boats
- ♦ View protection corridors
- ♦ Boat launches
- ♦ Boat tie-up areas
- ♦ Charter boat locations
- ♦ Docking locations and issues associated with cruise ships, historic vessels, special events and public docking space
- ♦ Seaplanes and heliports
- ♦ Land-based impediments to marina navigation and impacts on existing marinas
- Organized management of the Harbor area
- Enforcement of boating rules and regulations

FOCUS OF MARITIME MASTER PLAN

The Maritime Master Plan is meant to be both a guide for future decisions related to uses and activities at the Harbor and legal document which identifies the location of approved marinas and navigational safety areas. Planning staff, in consultation with the TAC, evaluated this concept and the goals and objectives of the Plan, and organized the document into the following areas:

Provide Guidelines For

- ♦ New Water Shuttle Stops and Excursion Vessel Docking Locations
- ♦ Changes to Pier Head Lines
- ♦ Creation of New Recreational Marinas

Identify Approved Locations for Facilities

- ♦ New Marinas
- ♦ Small Craft Launch Points
- ♦ Water Shuttle Stops
- ♦ Navigational Protection Areas

Suggest Policy

- ♦ Management of Baltimore's Harbor
- ◆ Protection of Commercial Shipping
- ♦ Navigational Safety
- ♦ Water Shuttle Program for Baltimore

The comprehensive program contained in this plan recognizes that although control of marina development is a critical component to preserving safety and navigational open space in the Harbor, many other factors also need to be incorporated into the Plan. Reflecting this broader

focus, this update has been renamed *The Baltimore Maritime Master Plan – A Plan for the Waters of Baltimore's Harbor*.

AMENDMENTS

Sixteen proposed amendments for specific properties were submitted to the City for addition in the updated Plan. These amendments covered a wide-range of interests, including establishing or expanding marinas, altering pier headlines, constructing bridges and/or docks in public navigational spaces, and developing a cruise ship terminal.

At the end of the review process, the TAC, in conjunction with Planning staff, recommended that the City approve three new marina's and restored one marina that had been removed from the previous plan, totaling 665 potential new slips. In addition, the Planning Department and the TAC recommended against the expansion of any physical structures into the navigational area of the Inner Harbor Basin, and rejected proposals for heliports and sea-plane tourism operations on the water. Also, the existing dry-storage marina at Lighthouse Point was approved to be moved to South Clinton Street, provided that special provisions were met. Three cruise ship terminal proposals were reviewed, and comments on the appropriateness of each location were provided. Approximately fifty-percent of the applications submitted for inclusion in this update were approved.

Once approved, this comprehensive update is not to be revised or amended by the Planning Commission for a period of five years from its adoption, as was done in the 1989 Plan. The goal is to insure this is a comprehensive master plan and that piecemeal changes are not made. There is one exception to this five year revision moratorium. The Planning Department is embarking on a comprehensive master plan for the entire City of Baltimore. If changes to the Maritime Master Plan are recommended as part of the Comprehensive Master Plan, then this document should be amended to accommodate those changes.

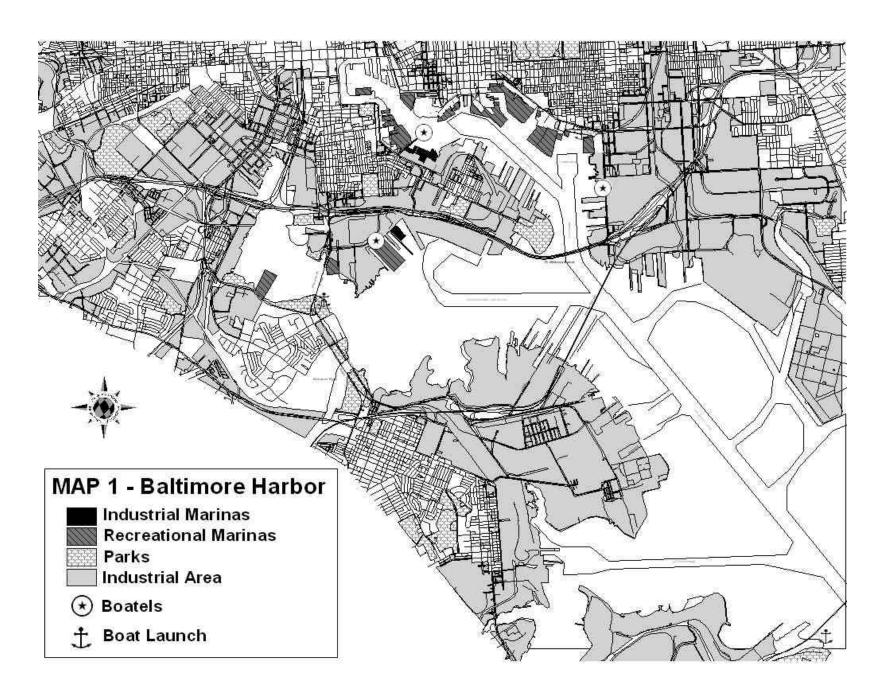
Introduction

Overview

Baltimore's Harbor is one of our greatest jewels, attracting millions of visitors each year from across the region and around the world. The Harbor has always been a central force in Baltimore history, functioning as a major port for international shipping and boat building for almost 300 years. Its history as a working port began changing during the 1950's, when American industry began to move abroad, and fundamental changes occurred in the structure of commercial shipping. In the early 70's, the Harbor's beauty and vitality began to attract developers, residents, tourists and recreational boaters in ever-increasing numbers. And yet the Harbor continues to hold on to its history as well, providing precious deep-water resources to viable commercial shipping businesses. As all of these interests increasingly competed for the same limited resource in the 1980's, it became evident that a balance had to be struck to allow each of these economic development generators to coexist on the water, while maximizing safety. The Marina Master Plan was originally created in 1985 to provide a framework for responsible management of the Harbor. Its goal was to allow access to the water by recreational boaters while protecting and allowing for growth of the commercial shipping industry in Baltimore's Harbor; and to accomplish these while maximizing navigational safety for all users of the Harbor. (See Map 1 – Baltimore Harbor)

History

Baltimore's deep-water Harbor exceeds seven square miles and is located about seven nautical miles from the main stem of the Chesapeake Bay. Fifty-two miles of shoreline line the water's edge, where, in earlier days, the proliferation of finger-piers and multi-level warehouses serviced the port's industrial and shipping interests which fueled the City's economy for centuries. In the 1970's, the shipping industry began abandoning some of the traditional waterfront locations in favor of new sites with spacious land areas for storing containerized cargo and automobile imports, leaving behind abandoned buildings and crumbling piers. These were not only useless



to the City's economy, but were eyesores and safety hazards as well. This condition would not remain for long, as visionaries began to recognize the vast potential of the waterfront to the City's redevelopment efforts and began to revitalize downtown from the Harbor's edge. As these efforts met success and more people began visiting the Harbor, it was inevitable that they would come by boat and that recreational boating would soon take its place along with commercial shipping as a primary user of this vital natural resource.

In 1981, fewer than 400 marina slips were located in the entire Harbor. By 1984, more than 700 new slips had been built and 1,000 additional slips had been approved for construction by the Army Corps of Engineers and the State of Maryland. An additional 1,500 slips were proposed, primarily in the Fells Point and Canton sections of the Patapsco River's Northwest Branch. Clearly, recreational boating had become a permanent and important part of the Harbor's future.

The 1985 Marina Master Plan

To manage this new phenomenon, the City adopted its first Marina Master Plan in 1985. The Plan identified three goals:

- ✓ To encourage the orderly development of marinas to complement the mixed-use development that was underway in the Inner Harbor, Canton and Fells Point;
- ✓ To minimize the potential for navigational conflicts between commercial and recreational vessels; and
- ✓ To discourage recreational marina development at waterfront properties having deep water access better used for commercial and shipping redevelopment.

The 1985 Plan created an overlay district which identified where marinas could be located, where they were prohibited, and the maximum water coverage allowed. It also recommended revising the City's Zoning Ordinance to require public review of marina development proposals to assure that such proposals conformed to the Marina Master Plan and that they provided required ancillary services such as parking and public water access. The Zoning Code was amended implementing this recommendation. Marinas became conditional uses in all zoning districts requiring a hearing of the Board of Municipal and Zoning Appeals.

The 1989 Marina Master Plan Revision

After the 1985 adoption of the first Plan, frequent formal amendments and the ensuing discussions led to its comprehensive revision in 1989. The revisions were substantial and wideranging, and intended to be broad enough to accommodate marina growth for at least five years. One of the major differences from the original plan was the creation in 1989 of definitions for inclusion into the City's Zoning Ordinance. Formerly only identified as "marinas" in the zoning ordinance, the new definitions distinguished between boating facilities, recognizing that each generated varying types and intensity of activities. These definitions were amended into the Zoning Code and have been immensely helpful in removing ambiguities that had existed prior to the 1989 update.

The 1989 Plan also defined the boundaries that it regulated and provided a set of maps designating marina locations. Shipping channels were strictly protected as were visual and physical access corridors. The plan called for increased boater education about the Harbor and about potential navigational hazards related to shipping; parking requirements were strengthened; and environmental requirements were incorporated from the City's Critical Area Management Program to mitigate pollution from increased boat traffic and wastes.

Current Update

More than ten years have passed since the Marina Master Plan was last revised. Development talked about in that plan is either completed or has long since been abandoned. The Harbor's popularity has continued to grow, causing even further congestion than there was a decade ago. The demands on the Harbor have gone far beyond traditional recreational boating, to include requests for tourism and transportation by large excursion vessels, historic ships, seaplanes and helicopters, kayaks and canoes, and personal watercraft (such as ski-doo's). At the same time, it is critical that commercial shipping keeps its hold on deep-water areas and waterfront commerce. Management of the many interests at the water's edge has become of paramount importance to the City's well being. Realizing the need to take a fresh look at the Harbor's future, Mayor Martin O'Malley charged the Planning Department with updating the Marina Master Plan. It is important that the original goals of the 1989 Plan are included and expanded to address these new issues. This effort also recognizes that although control of marina development is a critical component to preserving safety and navigational open space in the Harbor, many other factors also need to be incorporated into the Plan. Reflecting this broader focus, this update is renamed *The Maritime Master Plan – A Plan for the Waters of Baltimore's Harbor*.

Section 1 - Background and Process

The Technical Advisory Committee (TAC)

When Mayor Martin O'Malley charged the Planning Department with updating the Marina Master Plan for the first time since 1989, he envisioned an inclusive yet straightforward process that would move quickly while allowing input from Harbor users as well as nearby residents and other interested participants.

As his predecessors had done in the 1980's, the Mayor asked the Department of Planning to select the membership of the Technical Advisory Committee (TAC), an advisory committee of marine professionals created to assist the Planning Department with the process of updating the Plan. The resulting committee was made up of marine professionals including the United States Army Corps of Engineers, the United States Coast Guard, the Maryland Port Administration, commercial and recreational boating representatives, water-based business owners, appropriate City agencies, and others. (See Appendix 1 for a complete list of participants.) The Planning staff and the TAC first came together in May of 2001. They began by updating the goals and objectives of the plan, based on their knowledge of the Harbor – both anecdotal and documented. The group reviewed existing conditions, laws, a boat traffic study completed by consultants, and other contextual information in preparation for hearing amendments. Finally, the Planning Department in conjunction with the TAC, articulated a process that would allow for submission and review of proposed amendments by the general public and provided two public forums to collect community input on the proposed amendments.

Current Conditions

While the 1989 revision was significant in its clarification of marina definitions, its regulations did not cover all of the types of marine uses. By definition, it focused mainly on recreational and industrial marinas, without consideration for personal watercraft, excursion vessels, private piers and a host of additional navigational hazards, which existed in 1989 and have increased substantially since that time. The continuing swell of recreational vessels has now been joined by the addition of sailing schools and sailboat races, kayak clubs, and a second water shuttle service. The number of large boats servicing the tourist industry has also increased and will continue to do so. A number of historic vessels have expressed the desire to locate in or near the Inner Harbor, and The Maryland Port Administration and developers are searching for the appropriate location to relocate a cruise ship terminal. Visiting ships and events increase each year, and charter boat sightseeing demands rise. Different types of requests are also on the rise. Proposals exist for sightseeing planes and helicopters to be located on and fly over the Harbor. Recent security efforts have focused on the Harbor. All of this growth and activity generates a greater need to ensure safety on the water by additional maintenance and support activity. It also creates a potential threat to industrial/commercial shipping, and increases environmental impacts.

Table 1 – Areas to be Updated in 2002 Plan

- ♦ Docking locations for water shuttles
- Small water craft such as kayaks, canoes and paddle boats
- ♦ View protection corridors
- ♦ Boat launches
- ♦ Boat tie-up areas
- ♦ Charter boat locations
- ♦ Docking locations and issues associated with cruise ships, historic vessels, special events and public docking space
- ♦ Seaplanes and heliports
- ♦ Land-based impediments to marina navigation and impacts on existing marinas
- Organized management of the Harbor area
- Enforcement of boating rules and regulations

As the Harbor's popularity grows, so, too, do the problems generated by that popularity and increased use. The Harbor is beset by challenges including decreased availability of commercial deep-water piers, public docking space and available anchorages, as well as decreases in personnel and craft to enforce the regulations and manage new proposals and activities. Despite the large increase in the number of people who are now in contact with the Harbor water daily, no testing or warning system exists to notify users of potential environmental hazards.

These issues, and the challenges presented to manage them as well as to anticipate new conditions that may arise over the next five years, led the Planning Department to join with the Harbor businesses, users, and other stakeholders to form the TAC and update the Plan.

Goals of the Maritime Master Plan

The primary goal of the Plan is to provide a framework for the safe and environmentally responsible management of competing interests in Baltimore's Harbor in order to control growth of the recreational boating industry while protecting the integrity and growth of commercial shipping and industry in the Port of Baltimore. A number of very specific objectives stem from this overall goal which include:

Recreational Boating/Commercial Shipping

- Separate commercial and recreational activities in the Harbor to the extent necessary and possible.
- Consider the appropriate boat slip capacity and recommend a maximum for each site.
- Minimize the potential for boating accidents.
- ♦ Minimize congestion.
- Safeguard areas of present and future commercial port development.
- Optimize economic benefit to the City of both recreational boating and commercial shipping.

- ♦ Accommodate repair, service and storage facilities for recreational and commercial vessels.
- Promote programs that educate recreational boaters about commercial shipping and boating safety.
- Develop appropriate criteria for location and design of marinas and other recreational boating activities and tourist activities.

Related priorities

- Preserve water access and water views.
- Protect the environment from pollutants and ensure State and federal regulations are adhered to in a manner consistent with the unique characteristics of the Harbor.
- Protect the proper operation of and accessibility to storm drains and other utilities.
- Provide adequate access for police and fire services.
- Assure adequate parking and other land-side needs.
- Define management responsibilities for the Harbor and management tools for special events.
- Evaluate appropriateness of seaplanes and heliports on the water.
- Develop and adopt appropriate regulations to enforce the rules of navigational safety and management of the Harbor area.
- ◆ Propose additional appropriate uses for the currently-underutilized Middle Branch of the Patapsco River.
- ♦ Optimize economic benefits to the City of both recreational boating and commercial shipping.

The process to address this ambitious set of objectives took over a year to complete. This document outlines the recommendations that resulted from this intensive process.

Format

The document is divided into three sections.

- ♦ Section 1- Background and Process, describes the process used and the participants who worked together to determine the regulations outlined in the updated Plan.
- ♦ Section 2 Harbor-Wide Conditions and Recommendations by Category, describes in more detail the conditions that currently exist in the Harbor and outlines recommended policy and management changes to address those conditions.
- ♦ Section 3 Detailed Recommendations by Location, applies those policies to specific areas of the Harbor in detail. Throughout the document, related charts and maps clarify regulations and boundaries discussed.

Amendment Review Process – for specific locations

The Planning Department invited interested parties to submit and present proposed amendments to the existing Marina Master Plan. Sixteen amendments for specific locations were submitted covering wide-ranging interests, including establishing or expanding marinas, altering pier headlines, constructing bridges and/or docks in public navigational spaces, and developing a cruise ship terminal. Applicants presented their amendments in person to the TAC and Planning

staff, allowing members to ask questions. The public also had the opportunity to comment on proposed amendments at two public forums. Following discussions with the applicants and with the public, Planning staff and the TAC carefully reviewed each amendment using a set of criteria, developed from the articulated goals and objectives of the Plan. This document presents the policy recommendations for the Baltimore Harbor over the next five to ten years. Approved amendments are incorporated into the plan; all amendments including those that were denied, are listed in *Appendix II*.

Community Input

The Baltimore Harbor is a resource for use by all the citizens of Baltimore. For this reason, every effort has been made to enable public input from the beginning of this process and continuing through adoption of the Maritime Master Plan.

The draft plan was reviewed and informed by input from citizens at two public meetings. The City made a determined attempt to invite and encourage all interested parties to attend these forums. Waterfront property owners, community organizations surrounding the Harbor and marinas were contacted. In addition, separate presentations were made by City staff to community organizations surrounding the water at their regularly scheduled meetings. This revised Plan was also circulated among the public and a final opportunity for input was available at the Planning Commission hearing.

Future Amendments

Once approved, this comprehensive revision is not to be revised or amended by the Planning Commission for a period of five years from its adoption, as was done in the 1989 Plan. The goal is to ensure this is a comprehensive master plan and that piecemeal changes are not made. There is one exception to this five-year revision moratorium. The Planning Department is embarking on a comprehensive master plan for the entire City of Baltimore. If changes to the Maritime Master Plan are recommended as part of the comprehensive master plan, then this document should be amended to accommodate those changes.

Section 2 – Harbor-wide Conditions and Recommendations by Category

Harbor Management Issues

With so many and varied activities packed into one small venue, strong management is a vital component to the Harbor functioning in a way that maximizes safety for all those who recreate, walk, work or conduct business on the water and its edges. But confusing rules, split responsibilities and limited budgets for enforcement have weakened management of Baltimore's Harbor in recent years, exacerbating the potential for conflicts and possibly compromising the safety of the Harbor's users.

Existing Conditions

Harbor rules and procedures are articulated in not one, but two separate areas of the Baltimore City Code. Article 10 defines the City's legal management responsibilities at the Harbor. However, Ordinance 141 lists "Rules and Regulations for the Waters of the Inner Harbor" which do not match Article 10. "Recreation and Parks Rules and Regulations" presents a third set of rules governing the Harbor.

In addition, three separate oversight positions are defined in these regulations and in policy documents. The *Harbor Engineer, Harbor Master, and Dock Master* all are charged with duties and responsibility for the Harbor. The Harbor Engineer position has been eliminated. The Harbor Master position has been vacant for over five years. Due to budget constraints, only the Dock Master position has been filled for several years. The Dock Master's responsibilities are limited to collecting docking fees where appropriate at the Inner Harbor and assisting with coordination for visiting ships. To make up for the lack of central oversight, responsibility for separate areas of the waterfront has been divided and given to agencies already working in those areas on other responsibilities such as the Comptroller's Office of Real Estate, Department of Transportation and Public Works. No agency currently is taking responsibility for managing docking at the Fells Point waterfront. All of these separate City agencies have their own unique responsibilities, adding to the confused roles and ineffective oversight.

In an attempt to provide better coordinated oversight, the City created the Inner Harbor Task Force in the 1990's, comprised of agency heads of all Departments having some jurisdiction and/or responsibility in the Harbor. That group has endeavored in recent years to make sound, consistent decisions regarding development and use of the Harbor area. However, their success has been limited by the absence of formal policy criteria or guidelines for the Task Force to use as a framework for decision making; by the participants' lack of formal training in navigational or boating safety issues; and by their inability to meet more often than once each month due to busy schedules.

Recommendations

- 1) Create a Harbor Master position responsible for all maritime related issues for the entire Harbor.
 - ♦ This position should report directly to the Mayor's Office. This is necessary because of the high level of decisions made along the waterfront, the people doing business there and the need for quick decisions.
 - ♦ The Harbor Master should have staff to assist with the work to be completed, utilize the existing staff in the Dock Master's office, and should be charged with those duties and recommendations outlined in Table 2.

Table 2

Harbor Master

Recommended Duties and Responsibilities

- ♦ Collect docking fees
- ◆ Coordinate with the Office of Real Estate on waterfront leases and collections
- Raise funds for repair and improvement of public waterfront areas and piers through grants and other development efforts
- ♦ Manage daily boating issues such as illegally docked boats, boat pollution, user conflicts, etc.
- ◆ Coordinate applicable activities with the United States Coast Guard, State Department of Natural Resources, Fire Department, and Police Department.
- Enforce boating safety regulations.
- Schedule and coordinate visiting ships and boats.
- ◆ Coordinate special events working with the Baltimore Office of Promotion and others.
- ♦ Staff the Inner Harbor Task Force.
- ◆ Coordinate navigational space between commercial and recreational boating.
- ♦ Coordinate expansion of the Harbor boundaries by encouraging use of the Middle Branch and other underutilized spaces in Baltimore's Harbor.
- Coordinate interagency issues and establish policy for more seemless interface between land and water developments/activities.
- 2) Update membership of the Inner Harbor Task Force and redefine the group's purpose. Members should be added who have direct nautical and navigational experience. The new Task Force should utilize the guidelines set forth in this document, and the Inner Harbor Master Plan being developed by the Baltimore Development Corporation and the Planning Department for landside uses, to assist in making decisions that are consistent

and that contribute to the Harbor's sound future without sacrificing safety. The Task Force should only make decisions regarding broad policy for the Harbor, leaving the day-to-day operations and interpretation of that policy to the Harbor Master. The Harbor Master should staff the Task Force, providing analysis and recommendations for all policy changes under consideration. In addition, a separate sub-committee of navigation experts should be established to provide a resource to the Harbor Master and to the Inner Harbor Task Force as necessary. Among other issues, this subcommittee will review every pier headline change and requests for new marinas and work with the Harbor Master to make formal recommendations to the Task Force.

3) The existing city code, ordinances and rules governing the Harbor should be consolidated to create one cohesive set of regulations that is easily understood and strictly enforced.

Boating Traffic Volume and Navigational Safety

Existing Conditions

To insure the Planning Department and TAC had the most up to date information upon which promilgate amendments, Moffatt & Nichol Engineers performed a Marine Traffic Study. The purpose of the study was to determine the existing marine traffic conditions, to evaluate the proposed amendments' impacts on marine traffic, and to determine the capacity of Baltimore Harbor to accommodate boating traffic, especially mixing commercial and recreational vessels.

The boat traffic study used video tape and traffic counts. First, a sixteen-hour video tape recorded boating activity in the Inner Harbor Basin. Second, marine vessels were counted by type over a period of thirteen hours on three days, at five different locations around the Harbor. The detailed results of this study are available in a separate report entitled *Baltimore Harbor Master Plan Marine Traffic Study*, and can be requested separately from the Department of Planning.

♦ Marine Video

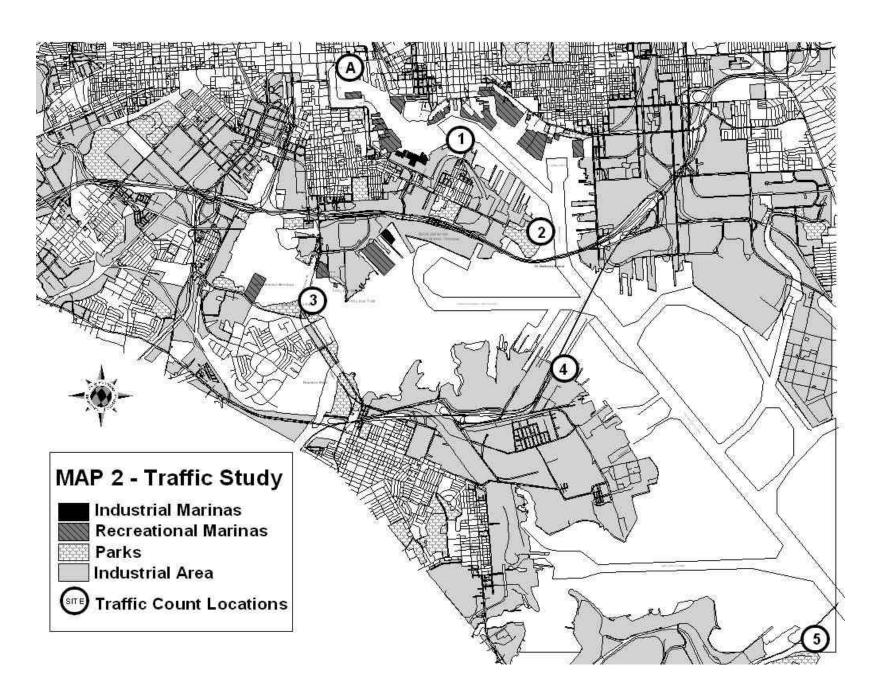
On Saturday, August 17, 2001, a sixteen-hour video was taken of the Inner Harbor Basin from 6:00 a.m. to 10:00 p.m. The camera was mounted on the 20th floor of the World Trade Center and focused on activities in the space parallel to the west wall, between Rash Field and the World Trade Center building. The video documented high boating activity and congested marine traffic. The most significant congestion was created by the two water shuttle services (Seaport Taxi and Water Taxi) converging at the Inner Harbor Amphitheater stops (Pier No. 1, USS Constellation); by visiting recreational boats; and by paddleboats. The video also showed boats traveling too close to one another, boats stopping to avoid collisions, and paddleboats operating outside of their safety area. Land-side pedestrian congestion near the Inner Harbor Amphitheater was created by the location of the water shuttle stops. Customers queuing to board or disembarking the water shuttles conflicted with the pedestrian flow along the promenade.

♦ Boating Traffic Survey

On Thursday - August 23, 2001, Saturday - August 25, 2001, and Sunday - August 26, 2001, marine vessels were counted at five locations outside of the Inner Harbor. The locations were at

Tide Point, Ft. McHenry, Harbor Hospital, Harbor Tunnel Vent Building, and Ft. Armistead. (See Map 2) The surveys were conducted from 6:00 a.m. to 7:00 p.m. No congestion or conflicts between the recreational boats, excursion vessels, water shuttles, and commercial vessels were recorded in the study areas. This is because there is still adequate space for vessels to pass one another in these areas. As anticipated, the number and percentage of recreational boats increased on weekends by 55% between the Inner Harbor and Ft. McHenry, and 23% between Ft. McHenry and Ft. Armistead near the Key Bridge. The number of commercial and industrial vessels decreased on the weekend. The number of recreational boats in the Middle Branch of the Patapsco, observed from Harbor Hospital, was the lowest of all of the study areas. On Sunday, just 376 recreational boats were observed at Harbor Hospital, whereas 1,130 recreational boats were observed at Ft. McHenry, the area of highest vessel movement.

No marine vessel congestion or conflicts were observed outside of the Inner Harbor Basin that would have an adverse impact to the commercial and industrial shipping of Baltimore based on current volume of vessels. The Middle Branch of the Patapsco is an excellent place for passive boating activity due to low boating volumes, and is an underutilized area.



Recommendations

- 1) Investigate and, where feasible, implement ways to alleviate congestion in the Inner Harbor basin. This area has the highest concentration of boating activity, and is the tightest space. Baltimore's Harbor is a series of cul-de-sacs rather than a linear area that can be passed through. It is especially important to focus on navigational issues in this area. Some recommended first steps include:
 - Relocate the water shuttle stops from the Inner Harbor amphitheater to the end of the Constellation pier.
 - Control/enforce the paddleboat safety area; place visible water markers to denote the safety area boundary and/or have personnel patrolling on the water.
 - Establish better control of the recreational boats by creating a management entity with authority to enforce rules and levy fines or tickets. (See Section 2A).
 - Explore lowering the speed limit within the Inner Harbor basin to four knots per hour due to the heavy congestion in the confined space.
- 2) Greater Baltimore Harbor has the capacity to accommodate more vessels, provided that the width of the channels is not compromised. It is important to discourage proposals to expand piers beyond the existing approved pier headlines, and to discourage any filling of navigational space with structures such as permanently moored barges. (See Section H, Pier Headlines)
- 3) The current 6 knot speed limit is an important component of boating safety in the Baltimore Harbor. The slow speed limit from Ft. McHenry inland allows the larger vessels to more safely mix with slower moving and smaller vessels such as kayaks and canoes. This speed limit should stay in place or be lowered, and continue to be actively enforced.
- 4) New piers, marinas or other facilities should not block or create a negative impact on the existing channel marking system, including the range light at Fort McHenry.
- 5) Marinas shall not extend beyond the pier head or combined pier head/bulkheadline, or be located closer than 400 feet from maintained primary shipping channels, whichever is the greater distance from the shoreline. (*See section H Pier Headlines*)
- 6) A setback of not less than 125 feet from turning basins or secondary channels shall be maintained, with greater area allowed when necessary for the safe maneuvering of commercial vessels.
- 7) In coves and inlets, between finger piers, and in other confined bodies of water, marinas shall not be constructed in such a manner as to impede access to the main body of water by commercial or recreational boat traffic. Additionally, no pier construction or docking location may interfere with water access of adjacent property owners.
- 8) The width of access channels shall be five times the average beam of vessels expected to use the channel and no less than 80 feet.
- 9) Moorings or anchorages outside of breakwaters and wave attenuators shall be restricted in areas where there is heavy congestion or where the facility is located in close proximity to shipping channels. It is necessary that channels not be further restricted by allowing these facilities in such locations.

Commercial Shipping

Existing Conditions

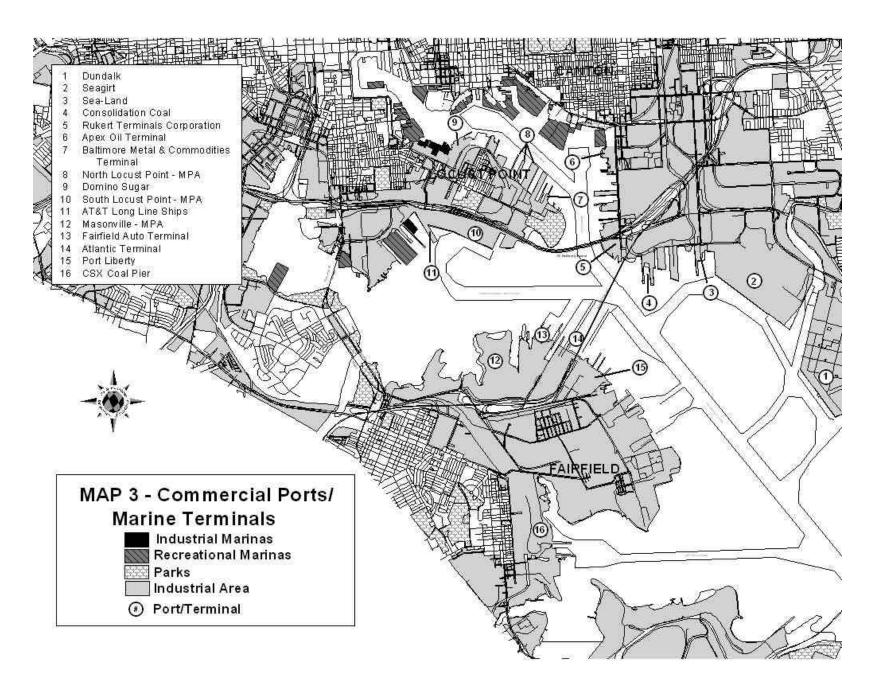
The port and its related industries remain a critical part of the City's economy and must not only be preserved, but be allowed to grow. Port operators and regulators remain concerned about the loss of deep water slips, which directly relates to the increase in waterfront mixed-use development, marina development, and recreational boating traffic. These were the concerns that led to the original creation and update of the 1985 and 1989 Marina Master Plans. These plans led to limits on marina development in specific areas to safeguard shipping from potential conflicts with recreational boaters and to preserve deep-water access for commercial uses.

Operators have always been particularly concerned about allowing marinas to be built too close to shipping channels, industrial turning basins and anchorages. Commercial vessels could be liable for damages caused by their wakes and prop wash. It is important to note that a commercial vessel need not collide with a slip or recreational craft to be considered liable for damages.

Commercial shipping has changed in several ways. However, Baltimore is still a viable port and an attractive location for cargo. The overall number of vessels visiting Baltimore's public and private terminals has remained fairly steady over the past decade. The number of vessels calling on some terminals may appear to be less, but this lower number is due to changes in the size of vessels. In the 70's and 80's, the largest vessels were 450 to 700 feet in length. Vessels are now commonly 700 feet to 1,000 feet long, holding a greater amount of cargo and, therefore, requiring fewer calls. The same amount of cargo is moving through our ports. Baltimore is currently one of the largest roll-on roll-off cargo ports on the east coast. In fact, the Maryland Port Administration and the private sector are concerned that the Baltimore region may be short of available waterfront land suitable for Port uses. It is important to note that port activity requires deep channels and waterfront access; they cannot function inland. This makes it especially important to preserve as much of this available land as possible for the port to maintain its activities. (See Map 3- Commercial Ports)

Recommendations

- 1) Preserve Industrial Protection Zones that were created to protect commercial shipping and waterfront industry.
- 2) Continue to enforce marina development restrictions that respect turning basins, industrial facilities, shipping channels, and safe distances from large commercial shipping vessels, as well as requiring wave attenuators to minimize risk to marinas and recreational boats from movement of these large vessels.
- 3) Continue to require and promote education for recreational boaters sharing the water with commercial vessels.
- 4) Enforce strict guidelines for altering pier headlines as detailed elsewhere in this report.
- 5) Consider establishing a Waterfront/Port protection zoning classification as part of the Comprehensive Rezoning study for Baltimore City.



Marinas

The 1989 Marina Master Plan focused largely on specifically defining different types of marinas, and establishing guidelines for their location as well as suggested parking requirements. The Marina definitions were added to the City Zoning Ordinance. Before defining marinas, the 1989 Plan first created three categories of marine facilities: Shipyard, Private Pier and Marina. The formal definitions created in 1989 are shown below in boxes.

The *Shipyard* developed definition was to define the heavy industrial use associated with the traditional activities of ship building and repair, as distinct from uses which serve the recreational boating industry.

Private Pier is defined to accommodate the riparian access rights of property owners. Property owners and industrial users are given more leeway in the use of their property with this designation. Private piers were not regulated in 1989 by the Marinas Master Plan, and will not be regulated by this plan. They must, however, obtain the proper State and federal permits for any work in or over the water. Shipyards and private piers with docking facilities for four or fewer recreational boats are not *marinas* under this definition, and would not be governed by the Maritime Master Plan.

Shipyard	Any facility designed and/or used for the manufacture, assembly or repair of ships, barges or boats.
Private Pier	Any facility with four or fewer slips designed and used exclusively for private, non-commercial purposes by the riparian property owner.
Marina	Any facility designed to moor, berth, or launch five or more recreational water craft as either a principal or accessory use.

Within the categories, further definition was given to marinas, dividing these into three types: recreational, industrial and dry storage (boatel). These categories and their definitions are still relevant and are discussed in detail in each section below.

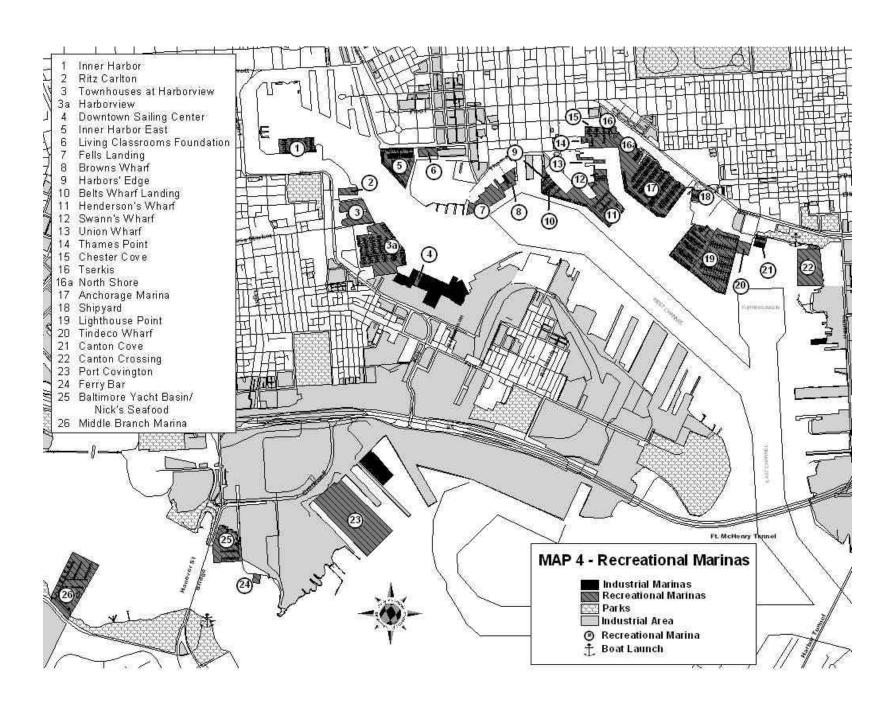
Recreational	Any facility that provides for the leasing or
Marina	selling of five or more in-water moorings or
	slips for recreational boats.

Recreational Marinas

Existing Conditions

Over 3,000 boat slips exist throughout the Harbor in 24 recreational marinas. More than 650 additional sites are permitted (*see Table 3*). All of these boaters contribute to Harbor marine traffic, and environmental degradation of water quality. The large numbers of boats also create potential navigational hazards by occupying navigational channels. (*See Map 4-Recreational Marinas*)

Table 3 – Number of Boat Slips in Harbor Recreational Marinas - 2001				
#	Name Existing slips Permitted slip			
1	Inner Harbor Marina	158	158	
2	Ritz Carlton Marina	0	13	
3	Townhomes at Harborview	0	290	
3A	Harborview Marina	350	350	
4	Downtown Sailing Center	20	20	
5	Inner Harbor East	204	252	
6	Living Classrooms Marina	48	48	
7	Fells Landing	0	150	
8	Brown's Wharf	32	32	
9	Harbor's Edge	6	6	
10	Belt's Landing Wharf	49	65	
11	Henderson's Wharf	75	300	
12	Swann's Wharf	26	52	
13	Union Wharf	0	52	
14	Thames Point	53	53	
15	Chester Cove	40	40	
16	Tserkis (Bayview)	52	52	
16a	North Shore at Anchorage	0	127	
17	Anchorage	576	576	
18	Shipyard	20	20	
19	Lighthouse Point Marina	488	544	
20	Tindeco Wharf	20	20	
21	Canton Cove	30	30	
22	Canton Crossing Marina	0	200	
23	Port Covington	0	400	
24	Ferry Bar Marina	0	34	
25	Baltimore Yacht Basin/Nicks	197	197	
	Seafood			
26	Middle Branch Moorings	340	340	
	Total Slips	2784	4421	



One of the challenges of this Plan is to manage the demand for marina slips over the next ten to twenty years and to allow for the "right" number of slips without creating conditions which are hazardous to recreational boating, as well as to commercial shipping. To assist in this determination, the City hired the consulting firm of Moffatt & Nichol Engineers to determine existing boat traffic conditions and to help the TAC determine the Patapsco River basin's capacity for additional recreational boating traffic. To supplement the consultant's findings, the Planning Department also conducted a video analysis of the innermost tip of the Inner Harbor. Among other goals, the video analysis helped to monitor activity at the Inner Harbor's west wall and the Inner Harbor basin. This area has the least amount of navigational space but is also the greatest boater attraction. The video analysis helped identify the level of activity and monitor user conflicts and safety issues. (For more information on the boating traffic survey, see Section B.)

Table 4 – Guidelines for Consideration - New Marina Development

- Relationship to adjacent land uses
- Relationship to shipping and commercial boating activity
- ♦ Need/capacity of area to accommodate new marina
- ♦ Size of proposed marina
- ♦ Land-based impacts including parking, traffic and noise
- ♦ Navigational impacts such as turning basins
- Relationship to slips approved or existing in the Marina Master Plan
- Environmental Impacts from fuel pumps, pump outs, etc.
- Relationship to and impacts on existing utilities
- ♦ Plans for safety and security
- ♦ Impact on view corridors
- Maintenance of Pier Headline or Martime Master Plan Navigational Safety Line

Recommendations

- 1) In reviewing the information available regarding recreational boat traffic and marinas in the Harbor, the TAC determined that the number of vessels was not an issue so much as the available space for the compatible proposed water uses and the view corridors from major land-side streets and locations. Because these major considerations differ depending on location, each marina must be considered and decisions made on a case-bycase basis.
- 2) In order to foster consistent review of all proposals, guidelines developed by the TAC were used to review individual proposed amendments (*see Table 4A*). These guidelines should be used whenever a new recreational marina is proposed.
- 3) Five amendments for recreational marinas were proposed and considered by the TAC. The TAC approved new marinas to be located at Canton Crossing in Canton, Ritz Carlton on Key Highway and Union Wharf in Fells Point. (See Map 4 Recreational Marinas) These proposals are discussed in more detail in the specific area recommendations in Section 3.

Industrial Marinas

In areas designated for industrial marinas, activities such as repair and manufacture of boats are permitted. Sales connected with such repair and manufacture of boats are also permitted. Wet slips and dry storage are allowed as accessory uses to repair and manufacture operations. No sales or leasing of marina slips are allowed. Industrial marina areas may be so designated if the parcel has industrial zoning and the proposed designation of an industrial marina area is compatible with neighboring landside uses.

Industrial	Any facility with five or more wet or dry
Marina	slips that is constructed solely for the
(Boat Repair	manufacture, assembly and/or repair of
Repair	commercial water craft less than 120 ft.
Facility)	long or recreational water craft.

Existing Conditions

There are two industrial marinas in the Baltimore Harbor: the repair shop at Light House Point in Canton and Tidewater Marina on Key Highway in South Baltimore. A third facility is being considered at Port Covington. General Ship Repair Corporation, adjacent to Tidewater on Key Highway, qualifies as both an industrial marina and a shipyard. All of these facilities meet the requirements of marine repair facilities as set forth in the 1989 Plan.

Recommendations

1) The existing industrial marina and shipyard operations should remain in the Harbor to serve the large number of boats here. New industrial marinas, if properly located are welcome.

Dry Storage Marina (Boatel)

While they generate a higher level of water activity than industrial marinas, dry storage marinas or boatels may not generate as much boating activity as recreational marinas, depending on it's location and surrounding land uses. The parking requirements may be less also if they stand alone as part of an industrial marina. This has not been the case at Lighthouse Point, where the Boatel has been part of a larger PUD with commercial, residential and a recreational marina.

Dry	Any facility with waterfront access
Storage	designed and/or used for the lease or sale
Marina	of dry storage for more than four
	recreational water craft, in racks or other
	storage systems.

Existing Conditions

Only one dry storage marina exists in the Baltimore Harbor at the shipyard at Lighthouse Point. This facility has capacity for 200 boats, and is associated with the Lighthouse Point industrial marina and recreational marina. Dry storage marinas share some of the characteristics of industrial marinas and recreational marinas. Their unique conditions and resulting issues must be addressed before any additional locations can be approved. The 1989 Marina Master Plan identified a comprehensive list of criteria for location and design for dry storage marinas that should be followed for the proper selection of locations for these facilities. (*See Table 5*)

Table 5 – Criteria for Approval Dry Storage Marinas

Dry Storage Marinas can be so designated if the parcel is zoned M-1, M-2, M-3 (industrial) and the following criteria are met:

- ◆ Such designation shall not conflict with the water quality or wildlife habitat objectives of the City's Critical Area Management Program;
- ♦ Surrounding land uses shall be such that the dry storage marina facility will not be exposed to significant air emissions, toxic or corrosive discharges, or the open storage of bulk materials;
- The proposed dry storage marina use does not displace an existing deep water use; and
- ♦ The proposed dry storage marina does not conflict with nearby water-dependent industrial uses.

In addition, the following requirements must be met for design of dry storage marinas:

- ♦ The boatel shall be designed such that the maneuvering of incoming and outcoming recreational boats does not interfere with commercial shipping;
- ♦ Adequate channel and fairway area shall be provided to accommodate normal peak boat lift use as well as any other marina activity, if permitted;
- ♦ Adequate temporary tie-up space shall be provided to serve peak recovery periods to prevent interference with the free flow of navigation;
- ♦ Adequate transportation for boats between the boatel and the water should be provided based on capacity; and
- The boatel structures shall avoid, to the extent possible, the Critical Area Buffer.

Kayaks, canoes and other small craft operations and launches

Existing Conditions

Paddling kayaks and canoes is gaining popularity throughout the country as a sport and a relaxing leisure activity. This is also true here in Baltimore, as these much smaller vessels share the most active areas of the Harbor in increasing numbers. While some of these are single users, others like the Canton Kayak Club are organized and provide kayaks for club member usage at designated points throughout the Harbor. A number of other organized boating groups also operate in the Harbor including the paddle boats on the edge of the Pratt Street promenade in front of the World Trade Center, the Baltimore Sailing Center on Key Highway, and the Living Classrooms Foundation sailing programs. But these small vessels are slow moving and difficult to see, and therefore create a potential safety hazard. Harbor management and control are needed to allow the clubs and small boaters to operate safely.

The Small Craft/Recreational Boat Launch Subcommittee of the TAC looked closely at these issues as well as issues particular to boat launches. In their discussion, they noted four particular areas of concern:

- Education is needed for the operators of the smaller vessels and for the influx of transient vessels. Small craft need to be aware that larger vessels cannot stop or maneuver quickly, and be especially careful in the shipping channels. They should also know legal docking locations and posted speed limits.
- ♦ City budgets are insufficient for boat launch maintenance. Alternative funding sources such as the Maryland Department of Natural Resources need to be explored.
- ♦ The Middle Branch is home to a boat launch area which is underutilized.
- ♦ Fort Smallwood Park, owned by the City but located in Anne Arundel County, would be a good alternative location for a boat launch giving access to the Harbor without congesting it more. However, public facilities and especially restrooms are needed to make this a desirable site.

Recommendations

- 1) Launch Points: No official kayak or small craft launch points should be located on City-owned piers except where there are already identified public boat launches or the promenade. Kayaks and canoes should be treated like all other boats, and dock in available areas in existing identified public docking spaces. The public piers and promenade are for everyone. Allotting a special spot for one type of vessel or a private club is against recommended policy. All available promenade space should be reserved for pedestrians.
- 2) Private Kayak Club Docking and Operations: The Canton Kayak Club may make arrangements with private property owners as long as the arrangements are consistent with this document. Kayak and canoe docking should not be located on piers with water shuttle stops for safety reasons. The Kayak Club and small craft should avoid all areas with shipping, heavy recreational boat traffic, water shuttle stops and shipping channels. If these areas must be traversed, small craft should spend as little time as possible in these areas.
- 3) Training: The TAC commends the Kayak Club on its training program for members regarding craft use and safety. This should continue and be refined based on TAC recommendations. The kayak and canoe clubs should further refer to United States Coast Guard and Maryland Department of Natural Resources safety codes to update their safety regulations and recommendations as needed.
- 4) Future Expansion: The TAC suggests the Kayak Club and other small craft organizations explore expanding into the Middle Branch of the Patapsco River. It is much safer for small craft and is currently underutilized for boating activity.
- 5) In order to assure fair and consistent review of small craft operations and launch points in the Harbor, the TAC developed guidelines for reviewing these operations individually. (See Table 6)
- 6) No facility that proposes to rent or lease small personal watercraft by the hour or day to the general public, including but not limited to paddle boats, jet ski's, and kayaks, is permitted unless specifically identified within this plan. These operations create unique

- challenges to navigational safety because the of the varying skill levels of the operators and the maneuverability and speed of the craft. Any proposals for these types of operations must be carefully reviewed according to the guidelines in this document.
- 7) One paddle boat location is permitted in this plan. It is limited to the Inner Harbor Basin and must have enclosed navigational space, and safety personnel or "chase boats" for safety as identified in *Section 3 Inner Harbor*.
- 8) Private individuals may launch their craft at approved public launch sites.

Table 6 – Guidelines for Consideration Small Craft Launch Point Locations

- Compatibility with commercial shipping activity
- Level of safety and education training of small craft users
- Relationship to other launch points
- Need
- ♦ Maneuverability and speed of small craft
- Water quality as it relates to public health

Water shuttles, excursion vessels and other tourist movement vessels Existing Conditions

In recent years, requests for tourist transit have taken a variety of forms from the water shuttle services to requests for large excursion vessels, seaplanes, helicopters and others.

The water shuttle services are important to pedestrian movement in the harbor. When first created in the mid 70's, the mission of the shuttle service was to move people *beyond* the Harbor to other venues in the City. Since then, the shuttles have provided such ease of movement that they have helped to move the conceptual Harbor boundaries outward as they have connected the Inner Harbor with surrounding areas. Today, water shuttles move about 600,000 people each year, and are an effective transportation mode moving people out of the Inner Harbor.

In recent years, however, the Harbor has hosted two water shuttle services instead of one. This requires the operation and maintenance of 28 water shuttle stops rather than the 14 needed to function adequately. The resulting congestion creates unnecessary difficulty in managing Harbor boating traffic. In addition, having two services confuses tourists and creates a glut of boats in the market. At times, both companies operate at less than half capacity. The need for and ability of, two separate water shuttle services to coexist in the Harbor is a continuing source of discussion and contention.

In addition, the location of stops needs to be reviewed. Locating the water shuttle stops at the amphitheatre in the Inner Harbor basin leads to queuing on the promenade which disrupts pedestrian traffic flows. The limited space in that corner of the Harbor, combined with large numbers of shuttles, creates an unsafe amount of navigational conflicts. (See Map 5 – Water Shuttle Stops)

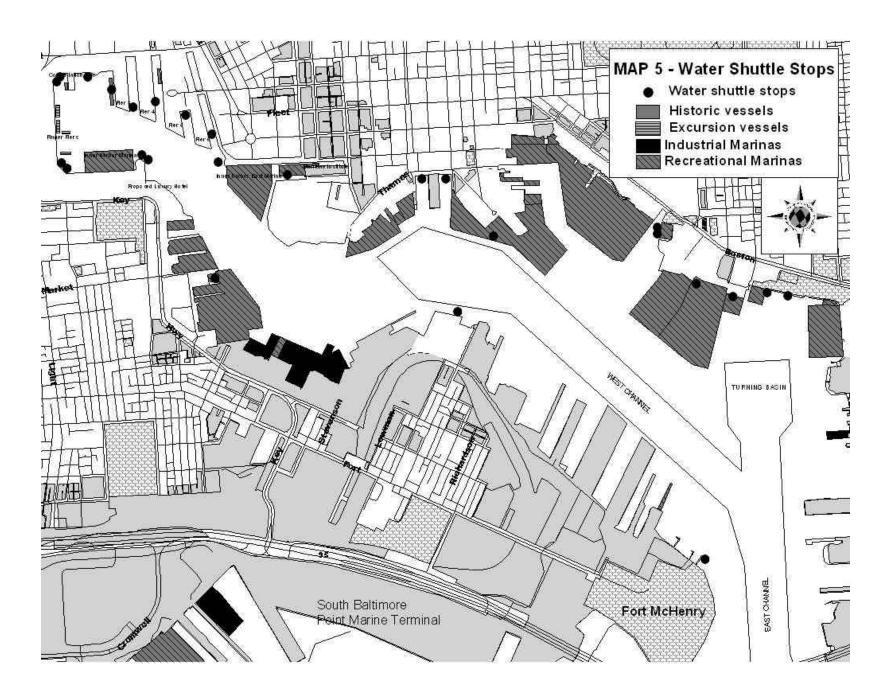
Other excursion vessels operating in the Harbor in recent years include large tour boats and amphibious vessels which operates as a boat, then leaves the water on wheels to become a land-side tour vehicle. In addition, requests have been made for a seaplane operation and for a heliport site and sightseeing operation. Each of these vessels provides its own challenges to maintaining water and navigational safety, minimizing congestion, and preserving the most attractive qualities of the Harbor. Any requests for such vessels must be reviewed carefully in accordance with the guidelines and recommendations provided in this chapter.

Recommendations

- 1) A comprehensive review of the water shuttle system should be conducted. This review should develop a clear purpose and vision for the water shuttle system in Baltimore Harbor. This vision will assist the Inner Harbor Task Force and other decision makers in developing appropriate language for wharfage agreements, promoting safety and enforcing rules.
- 2) Only one water shuttle business should be permitted to operate rather than the two that currently exist.
- 3) Development of any excursion and transit operations must be scrutinized carefully and decisions made using the guidelines developed by the TAC. (See Table 7)
- 4) All new proposed transit, excursion or aircraft operations in the Harbor should require approval by the Inner Harbor Task Force or other policy review group created to regulate the Harbor. The Inner Harbor Task Force should review the proposed operation using the guidelines in Table 7.
- 5) The impact of aircraft excursions over neighborhood and other landside uses should also be considered as part of the comprehensive re-zoning study under way for Baltimore City.

Table 7 - Guidelines for Consideration Transit/Excursion/Aircraft Operations

- ◆ Loading areas and potential conflicts (parking/pedestrian queuing and movements)
- Recreational and industrial land-based conflicts and compatibility
- Purpose of boats i.e. transit, excursion, educational, etc.
- ♦ Impact on view corridors
- Number of vessels and frequency of stops
- ♦ Navigational hazards in area of stops
- ♦ Need for stop
- ♦ Safety of proposed facility
- ♦ Compliance with wharfage agreements and leases
- ♦ Landing/Take-Off Zones (aircraft)
- ♦ Noise levels and impacts on surrounding land uses



Cruise Ship Terminals

Existing Conditions

As Baltimore's Harbor has attracted more and more visitors and businesses, it has also attracted the attention of the tourism industry. Several cruise ship operations have expressed interest in recent years, which increased after September 11, 2001 when companies desired to locate away from their former base in New York City. Baltimore is already a port-of-call for one cruise ship company at the Dundalk Marine Terminal. However, this cruise ship operation needs to be relocated so the Maryland Port Administration can dedicate the space for international cargo.

Among the proposed Maritime Master Plan amendments were three proposals to develop a cruise ship terminal. The sites included the Harbor Point Development in Fells Point (formerly Allied Chemical), Piers 8 and 9 in North Locust Point marine terminal, and Canton Crossing north of the intersection of Clinton and Boston Streets. According to the Maryland Port Administration Cruise Market Study, the Baltimore market can support only one cruise ship terminal. That terminal should be sited in an area convenient to Downtown and tourist venues, have sufficient parking and vehicle access, and pose the least potential for neighborhood impacts. With those goals in mind, the TAC reviewed each proposal, evaluated them with respect to their potential impact on the Baltimore Harbor, and provided a ranking of each. (See Map 6- Proposed Cruise Ship Terminal Locations and Ttable 8)

Table 8 – Guidelines for Consideration – Cruise Ship Terminal Location

- Traffic impact on neighborhoods/direct access from highways
- Capacity for handling parking in a reasonable way on site
- Impact on existing marine infrastructure and marine related maintenance

1) North Locust Point Piers

After review, the TAC found that the proposed locations at North Locust Point Piers 8 and 9 raised significant feasibility questions. North Locust Point is an industrial facility. Shifting part of its use to a passenger terminal would reduce the area remaining for cargo space and create potential conflicts with surrounding commercial industries. Access to this site is also problematic, requiring extension of Key Highway and an at-grade crossing at the CSX railroad tracks. The only alternative is access through the nearby neighborhoods. The city continues to work on implementing this loop road, and it is scheduled in the City Capital Improvement Program. Parking is also limited and would require satellite sites throughout the neighborhood.

2) Harbor Point

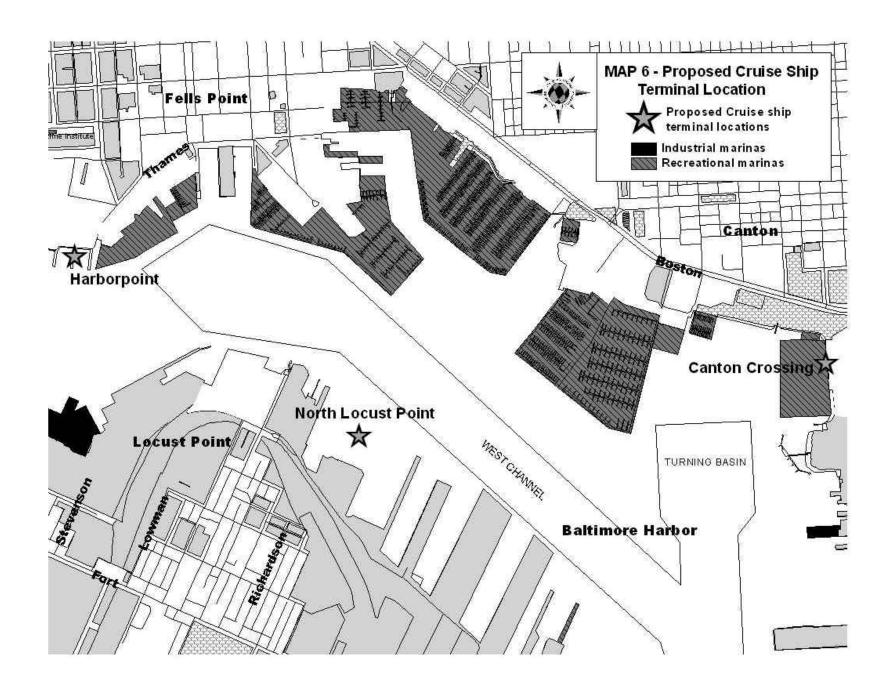
Harbor Point presents similar problems to the North Locust Point proposal. A cruise ship terminal at this location would require construction of a vehicular access bridge across an existing marine channel. In addition, the site would require extensive dredging to fit only one ship, and that dredging would have to be constant in order for the site to function. Access is available only through the street system in surrounding neighborhoods, which are already experiencing significant traffic. The terminal would be compatible with the surrounding mixed-

use development; however, parking would be difficult to provide with all the other demands for parking at the site.

3) <u>Canton Crossing</u>

Canton Crossing has fewer conflicts than the other two sites. The Canton Crossing Planned Unit Development (PUD) is adjacent to the Apex oil pier. Once repaired, Clinton Street would provide access to the cruise ship terminal directly from I-95 without impact on surrounding neighborhoods. Adequate space is available for parking in this PUD without impact to neighborhoods. Also, the site has sufficient deep water for large ships and helps to maintain the vicinity as a large ship concentration area.

The TAC is not empowered to specifically recommend any of these sites for a cruise ship terminal. The final location of the cruise ship terminal will be determined by the Maryland Department of Transportation using the discussion contained in this document as a guide.

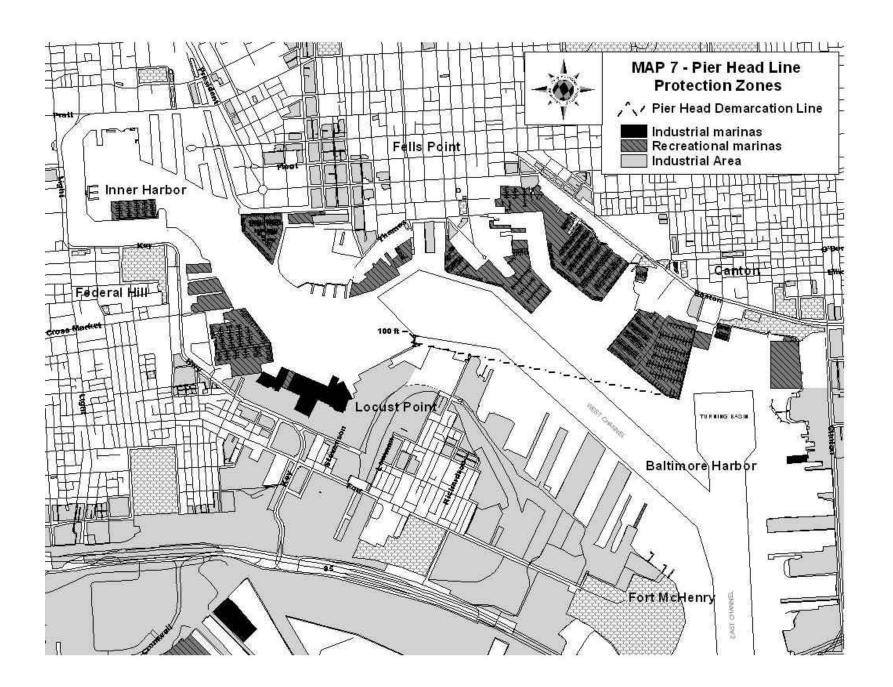


Pier Headlines

Existing Conditions

Throughout this document, we have emphasized the need to protect navigational space to maximize safety for both recreational boaters and commercial vessels. One tool created to protect this space was the "pier headline," originally established by the Secretary of War in the 1800's to delineate the limit to which a property owner may extend into public waters. It is defined by Article 10 of the Baltimore City Code as "the limiting lines beyond which no structure shall extend." The pier headline is shown on the U.S. Army Corps of Engineers map "Pier Head and Bulkheadlines Baltimore, MD," with the last revised date of September 25, 1968.

Traditionally, the pier headlines could be changed by agreement between the local government, the United States Army Corps of Engineers, and the State of Maryland. The 1989 Marina Master Plan altered the pier headlines for recreational marinas to reflect changes in water use, and allow for better maneuverability. The existing lines have been continually challenged in recent years, as property owners have used creative means for defining the term "structure." For purposes of this report, a pier headline will be considered pierced if any structure extends beyond its limits, including dolphins, permanently moored vessels, or any other floating objects that are intended to be permanent.



Recommendations

- 1) In considering proposed changes to Pier Headlines, the TAC recognized that decisions needed to be made on a case-by-case basis, giving consideration to conditions surrounding each property, including use of the surrounding area by recreational boats and commercial vessels.
- 2) The request for a pier headline extension is similar to a variance request in land use law, and should follow a formal review and decision-making process. The existing pier headline is presumed correct. The TAC has developed clear guidelines to be used in that review. (See Tables 9 and 10.) Even if the applicant is able to meet these guidelines the City of Baltimore may deny the application if it is in the best interest of the "public good".

Table 9 – Guidelines for Consideration Industrial Shipping Zone

- ◆ Does the proposal directly relate to the needs or "structural" issues particular to the applicant's industry or port shipping?
- Does the enforcement of the pier headline deny the applicant rights commonly enjoyed by others at similar properties?
- ♦ Does the proposal assist with access to deep water channels?
- ♦ Does the proposal negatively impact safe navigation or marine infrastructure?
- ◆ Is the request based on conditions or circumstances which are the result of actions by the applicant?
- Does the proposal improve navigational safety?
- Does the proposed extension have a negative impact on public use of waters of the United States?
- ♦ Is the request for the extension caused by land or building uses on adjacent properties?

Table 10 – Guidelines for Consideration Pier Headline Extensions within Harbor Navigational Safety Zone

Inside the Harbor Recreational Safety Zone, the following requirements must be met in order for a change in the legal limit for the pier headline to be granted:

- ♦ Demonstrate that enforcement of the pier headline rules will deprive the applicant of rights commonly enjoyed by others in similar areas.
- ◆ Verify that the granting of the change will not confer on the applicant a special privilege that would be denied to other applicants.
- ♦ Show that the request is not based on conditions or circumstances which are the result of actions by the applicant.
- ♦ Show that the request does not arise from a condition relating to land or building use, either permitted or nonconforming, on a neighboring property.
- ♦ Show that the application for change in the pier headline does not have a negative impact on navigational safety.
- ♦ The request must directly relate to structural changes particular to the applicant's industry or activity.
- 3) The Harbor has been divided into two districts for considering changes to the pier headline. These districts were chosen based on the volume of boating traffic and available navigational space. The line delineating the two areas bisects the Harbor diagonally, extending from the tip of Lighthouse Point Marina on Boston Street, to the western edge of Domino Sugar on Key Highway, 125 feet from the current shipping channel. (*See Figure 1*) The *Industrial Shipping Zone* is the area of the least recreational activity on the east side of the line where most of the industrial activity is focused. This area has more space and more commercial shipping activity. Under certain conditions, puncturing

the pier headlines may be acceptable in this area. Table 9 outlines the condition for piercing the pier headline in this area. The *Harbor Recreational Safety Zone* is the area of greatest recreational activity to the west of this line where navigational space is to be strictly protected. This area hosts the greatest concentration of boating activity, two sailing schools, the majority of water shuttle stops, and venues for special events. It has the least amount of space left over for navigational movement and by necessity, the least flexibility in pier headline location. Table 10 outlines the conditions that must be met in order to pierce the pier-headline in this area.

Water Quality

Existing Conditions

Although Baltimore Harbor water quality has improved since the 1970's, it still has not reached the goals of the Chesapeake Bay Agreement. The major sources of pollution are no longer "point source" discharges from individual industries, but are instead "non-point" discharges, such as rainwater run-off from streets and parking lots, and leaks in the City's antiquated sanitary sewer system. Also, despite years of public education, people continue to litter streets. This trash is washed into drainage systems throughout the watershed during storms, and ultimately arrives in Baltimore's Harbor. Trash not only creates unsightly conditions but damages boat

engines. It also inundates healthy wetlands, damaging nature's natural system of cleaning itself, leading to even more pollution. Finally, floatable trash is a major source of complaints from citizens around the Harbor.

Although marinas are not the major source of pollution, they also contribute to water quality problems in a variety of ways. Marinas contribute to non-point pollution through the creation of impervious/non-porous pavement, dust from hull maintenance, solvents from engine repair, petroleum from careless fueling practices and heavy metals from antifouling paints. In addition, point sources of pollution can be released from boat sewerage systems directly into the waterway. Marina design and location can also contribute to environmental degradation by destroying sensitive habitat areas.

Similarly, commercial shipping operations contribute to the degradation of water quality through storage of materials, storm water runoff from vast paved parking and storage areas, and the discharge of tainted bilge water from visiting ships.

Marina and shipping operations require the water to survive; they cannot locate inland. Each benefits significantly by a cleaner, healthier Harbor. Although they are not the major source of pollution, marinas and commercial shipping operations can take responsibility for their part of the problem. If all operations contribute, the cumulative result will be a cleaner, healthier Harbor and Bay.

<u>Recommendations</u>

- 1) Every industrial and recreational marina should be encouraged to become part of the State of Maryland Clean Marina Program. This voluntary program provides guidelines for Best Management Practices for marinas to adopt that control wastes and storm water run-off for water quality improvements.
- 2) All recreational marinas should require that people which live aboard their boats enter into a contract with a licensed boat pump-out operation, who will visit the boat and pump out the sewerage on a regular basis. This discourages illicit discharges to the Harbor.
- 3) All new commercial shipping operations must comply with the Baltimore City Critical Area Management Program and the updated storm water standards. Existing operations should be encouraged to enhance their facilities to comply with these measures.
- 4) Commercial shipping operations should limit storage of potentially polluting materials outside. If polluting materials are stored outside, operators should follow Maryland Department of the Environment Best Management Practices for control and treatment of run-off. The Baltimore City Critical Area Management Program regulations provide detailed requirements to achieve this goal.
- 5) The City of Baltimore should consider installing and maintaining trash interceptors at major storm water outfalls to collect trash before it enters the Harbor, or utilize other methods to reduce the volume of trash in the harbor.
- 6) The City of Baltimore should actively seek funds for restoring and creating wetlands in the Middle Branch of the Patapsco River to capitalize on this natural estuary as an ecological resource.

7) The City of Baltimore should work closely with the U.S. Army Corps of Engineers and the Maryland Port Administration to remove contaminated sediments from the Harbor to stabilize and improve water quality in the long term.

Utilities and Fire Safety

Existing Conditions

Storm drain outfalls are located in several areas of the Harbor that are near or adjacent to the location of marinas. These not only contribute to the trash problems described above, but in some cases the physical force of the discharged water sinks docked boats and damages the infrastructure surrounding the drain. Pollution from these pipes also causes odor problems which citizens and business have complained about.

Fire fighting in the Harbor can also be problematic. Boats are made of fiberglass or wood, which are highly flammable. The great number of boats increases the possibility for a large fire in or around the Harbor. Like other City agencies, however, the Fire Department has been beset by budget cuts, which reduce staffing and available resources to fight fires. This is especially true on the water, where fireboats are not necessarily and are extremely expensive to replace. In addition, available stand pipes which provide water access to firefighters at marinas are poorly documented, making it difficult to locate them during emergency situations.

Recommendations

- 1) Install trash interceptors at large storm drains to catch as part of a comprehensive approach trash before it enters the Harbor.
- 2) Continue working with State and City capital budget entities to fund adequate fire fighting equipment for use on and around the water or explore ways that the USCG or State can fill the void in fire fighting capacity with their equipment.
- 3) The Fire Department should work with the City's GIS system to map all stand pipes and should keep those maps up to date and accessible.
- 4) Adequate water sources should be available on piers to fight potential fires.
- 5) No new marina should be constructed in the path of large outfalls unless adequate technology is installed to temper the flow of water.

View Corridors

The waters of the Baltimore Harbor belong to the public, and are available to everyone. However, use of the water is often limited to those that can afford a boat, or who can pay to ride on a boat. Access to the water should not be limited to those who have access to a boat or who can afford to live in waterfront buildings. This public resource should be protected for all. There are several types of special views to and from the water that must be considered for preservation. First, many taxpayers (business and residents) have invested in property based on having views to the water from the land. The location and placement of marinas, buildings on piers or barges have the potential to negatively impact these adjacent property owner's views. Although historically many neighborhoods along the waterfront were denied visual access to the water by structures, at that time the Harbor was very polluted and unattractive. Baltimore's Harbor has been restored to a vibrant, attractive asset that people want to connect with. It is important to respect this new condition and capitalize on the benefits of the water by protecting

land based visual connections to the water to the maximum extent practical. The second type of water view is from the water or land to the opposite shore. These views mean that the structures or buildings allowed should create a special view and a sense of place, acting as an asset to the opposite shore and remainder of the Harbor.

Existing Conditions

Baltimore has made great strides in preserving public access to the waterfront by creating the seven mile waterfront promenade from Canton to South Baltimore. The Inner Harbor Basin, Canton Waterfront Park and Broadway Pier also provide specific locations for public access. However, water-based developments such as marinas, piers, buildings on piers and barges create a visual wall between the promenade and the water. Views, and therefore access, are effectively blocked by these developments. Many marinas along the waterfront promenade block views with acres of boats. Recognizing this problem, and the importance of preserving water views, the 1989 Marina Master Plan established view corridors. The Plan recommended organizing land-based developments and marinas so that open water views could be protected to the greatest extent practical. View corridors were established in the Plan, and identified in the official Marina Master Plan maps. (See Map 8) Additional views from the neighborhoods were legally protected in the Key Highway, Fells Point and Canton Urban Renewal Plans. Despite the protective view corridors, many buildings and barges have been approved around the Harbor that separate people from connecting to the water in areas not specifically identified for protection. Although the waterfront promenade is an important asset for public access, the neighborhood connection to the waterfront is also historically important, and should be given careful consideration when designing waterfront developments.

- 1) Consider view corridors when designing marinas. Include openings and vistas in marina design to provide gaps that protect public water views from the promenade.
- 2) Protect the existing view corridors identified in this Plan and in the approved Urban Renewal Plans and applicable Planned Unit Developments.
- 3) Conduct a comprehensive review of the existing view corridors to assure they are adequately defined and consider adding additional view protection areas.
- 4) Reduce the number of water-based ships, barges or excursion vessels that are docked or moored in areas of major public access such as the Inner Harbor and other waterfront parks. These vessels are large and block visual access to the water. They should be permanently moved outside of major view areas.
- 5) Include sufficient view corridors and vistas when designing land based waterfront development to assure visual contact with the water from the neighborhoods behind the development. This is important to maintain Baltimore's historic connection to the waterfront from the neighborhoods. Also consider the views of the development from the water, preventing a "canyon" effect of large structures up against the waterfront.

Historic Vessels

Baltimore's waterfront is steeped in the history of commercial shipping and ship building. As part of the revitalization of Baltimore's waterfront in the 1970's the City and non-profit partners decided to highlight this history by acquiring control of a collection of historic museum vessels and creating space for visiting historic ships to dock as part of celebrations and tourism. Baltimore was able to bring the Torsk, Chesapeake Light Ship and Constellation to Baltimore from the U.S. Navy to highlight our history. These ships have been on display and open to the public since the 1970's. In addition, the Living Classrooms Foundation manages the Taney, an historic Coast Guard vessel that is birthed at pier 5.

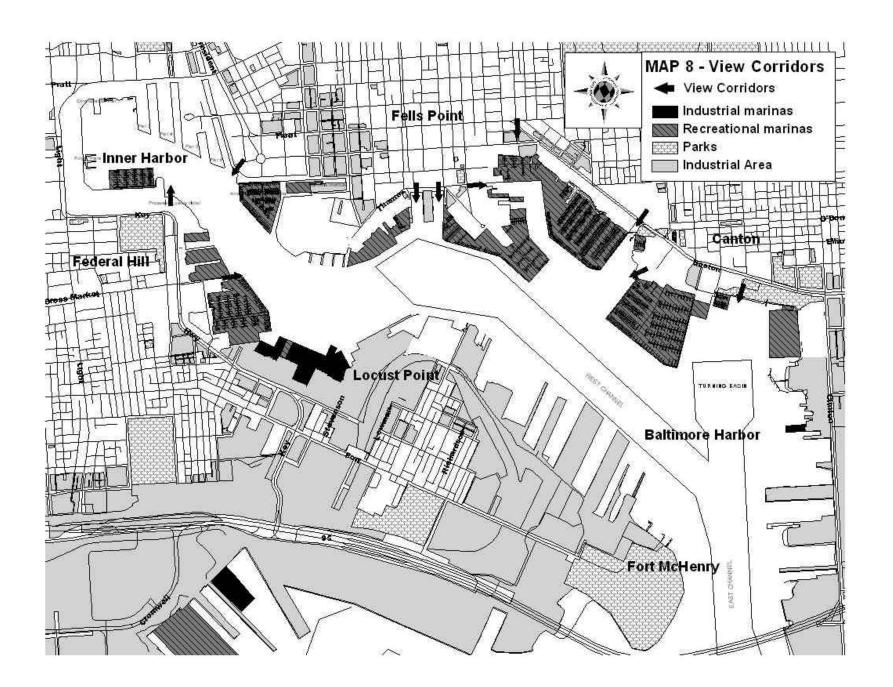
Existing Conditions

The Chesapeake Light Ship and Torsk are berthed on the west side of Pier 3 in the Inner Harbor adjacent to the National Aquarium of Baltimore. The Constellation, the oldest of the three, is berthed on the west side of the Constipation pier. These ships are now maintained and operated by the Living Classrooms Foundation as part of an agreement with the City. The Living Classrooms Foundation uses the vessels for tourism and educational classrooms for youth. In addition, the Liberty Ship John W. Brown, a restored Liberty Ship built in Baltimore and used in World War II also calls Baltimore its home. This ship is unique from the other historic vessels in the Harbor because it is completely restored and can move under its own power. Also, the vessel is owned, maintained and operated by Project Liberty Ship, a private, non-profit organization, completely separate from Baltimore City government. The John W. Brown is by far the largest of the historic museum ships in Baltimore, measuring approximately 440 feet in length. Because of its size, the John W. Brown is not berthed at the Inner Harbor. The John W. Brown is docked at a pier that is controlled by the Maryland Port Administration. This location creates difficulties because visitors cannot be allowed on the ship in a heavy industrial area. It also presents risks to the long term security of Project Liberty Ship because it is a temporary location. Project Liberty Ship is seeking a permanent docking location in Baltimore that can be privately owned, will allow visitation and protect the ship's location in Baltimore for the foreseeable future.

Although historic museum vessels provide benefits such as a sense of history and educational opportunities, they also have several challenges. Most of vessels cannot move under their own power and are permanently docked at specific locations. This creates challenges for property owners who have the views from their sites blocked by the vessels, or have to design their land based operations to accommodate the permanent vessel. It also can be costly to move the vessels for any reason, such as dock repair or other maintenance. Finally, all historic vessels are very costly to maintain in good condition. They require a sufficient revenue stream for upkeep such as painting, deck replacement and hull repair, which can be challenging.

- 1. Although historic vessels can be expensive to maintain and have other challenges, they are important to tourism and provide an opportunity for "living" history at the Harbor and should therefore remain in Baltimore.
- 2. Consider designating a location in the larger harbor area for historic vessels to be berthed together. This area could function as a "floating museum", allowing the concentration of vessels to help increase tourism activities and revenue.

- 3. The City of Baltimore should work in partnership with the Liberty Ship John W. Brown to find a permanent home. The John W. Brown is an important element in Baltimore's shipbuilding history, and should remain in Baltimore.
- 4. Although historic "museum" vessels are important, due the expense and other challenges associated with their operation Baltimore City should only provide space for the current four vessels (Torsk, Chesapeake Light Ship, Constellation and Taney). No additional museum vessels that cannot move under their own power should be located in the Inner Harbor area. The only exception to this would be the creation of the larger "floating museum" concentration of historic vessels discussed earlier in recommendation 2.



Section 3 – Detailed Recommendations by Location

Inner Harbor

Existing Conditions

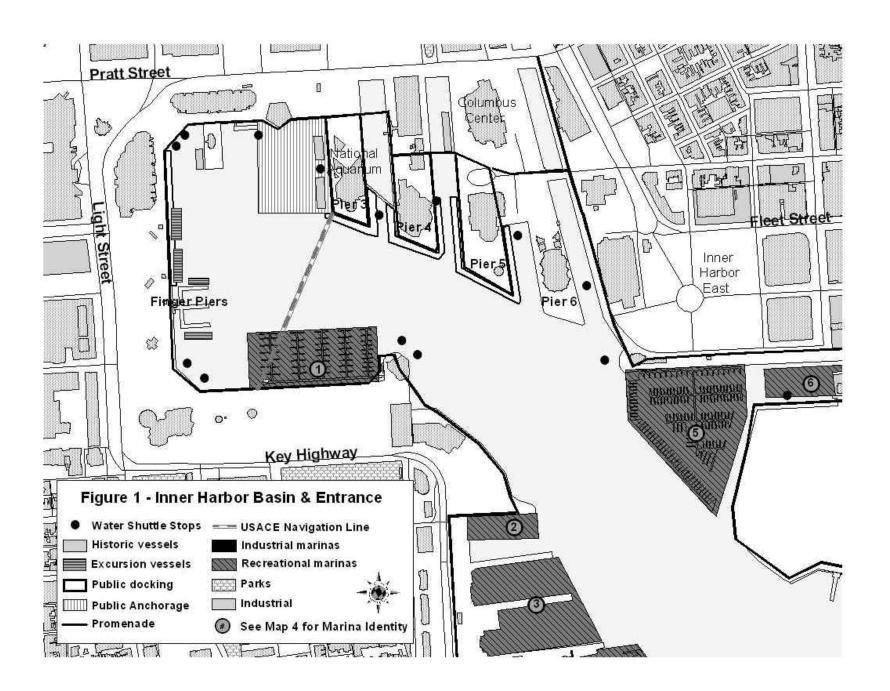
The Inner Harbor, traditionally the focal point of the Baltimore's development resurgence, presents a unique set of problems and opportunities. Marine traffic and congestion are the direct results of the Inner Harbor's success as a retail and recreation center. The National Aquarium, Maryland Science Center, Harborplace, and the redeveloped Power Plant all attract visitors to the Harbor. The Harbor itself attracts pedestrians to the water's edge. All of this activity adds to the vitality of the urban waterfront. The Inner Harbor basin is Baltimore's number one tourist attraction. The City is interested in retaining a high level of activity in this area, provided that it can operate safely. (See Figure 1)

Those who visit the Inner Harbor by boat are offered a variety of accommodations. Informal anchorage is provided in the area between Constellation Pier and the National Aquarium. The Dock Master provides tie-ups for transient boaters along the bulkheads of the West Wall and finger piers for a fee. The City-owned and privately-operated Inner Harbor Marina on the southern side of the Inner Harbor Basin provides 158 slips with pump-out and fuel facilities. As the number of long-term facilities around the area has increased, the Inner Harbor Marina has been converted to serve more transient boaters.

The Inner Harbor is heavily congested during peak boating periods. The number and variety of vessels, including paddleboats, water shuttles, tour boats, charter boats and recreational vessels, contribute to a lively mix of activity. Recreational boat traffic is largely composed of boats visiting from outside the Harbor; therefore, regulating slips within the City will do little to reduce the congestion. Compounding the congestion in the basin is the narrowness of the basin's entrance. At its narrowest point (between the end of Pier 4 and the first T-head of the Inner Harbor Marina), the entrance is only 550 feet wide. The most important measure the City can take is to preserve as much open water as possible to allow the maximum area for movement of commercial and recreational vessels.

- 1) No new or expanded marinas will be permitted in this sector of the Harbor.
- 2) The City should continue to provide tie-ups and temporary moorings around all bulkheads not being used as permanent berthing sites to accommodate boaters during peak periods. The number of sites the City leases to private entities should be limited to maximize public docking space.
- 3) The designated anchorage area in front of the World Trade Center should be limited to its current configuration and permanent mooring buoys should be installed to provide better control of the anchorage.
- 4) No new structure or vessel should be constructed or permanently located in the basin that conflicts with the goals of the Harbor Master Plan. Such conflicts would include blocking views from the promenade, filling needed navigational space, disrupting existing marine infrastructure, creating additional maintenance problems, and increasing congestion in an already congested area.

- 5) The TAC reviewed and approved portions of a proposal by the National Aquarium in Baltimore. A small pier will be constructed adjacent to the existing pier to function as a small educational area for students. It was approved under the condition that the size of the pier should be no wider than twenty feet, and water coverage should be minimized. Since the proposed pier is located in an area where boat traffic is already restricted, there should be minimum disruption or conflict.
- 6) Commercial vessels berthed at the Harbor should be limited to those that contribute to the historic character or have significant public benefits. The number of permanent berths for commercial excursion vessels should be reduced to open views and provide additional space for visiting ships and public docking.
- 7) The Technical Advisory Committee and Planning Department recommended approval for constructions of a 13 slip recreational marina as part of the Ritz Carlton development (Lot #2, North of Pier A) with the following conditions:
 - ♦ The marina may not exceed thirteen total slips.
 - ♦ The marina design must follow MDE guidelines for safe docking space taking into account final plans for the Harborview pier housing development.
 - The Promenade wall may not be used for "Mediterranean style" tie-ups.
 - The parking requirements for the marina must be met on site.



Inner Harbor East/Key Highway

Existing Conditions

The Inner Harbor East and Key Highway Renewal Areas are located on opposite shores, framing the entry to the Inner Harbor Basin. Though geographically small, Inner Harbor East has played a significant role in the Harbor's mixed-use development as it provides the transition between the Inner Harbor and Fells Point. The area begins at the northern side of the former Allied Chemical site and proceeds west to the mouth of the Jones Falls. While only ten years ago the area was home mainly to light industrial uses, parking, vacant lots and abandoned wharfs, its resurgence in just the past few years has been nothing short of remarkable. (See Figure 2)

The Marriott Waterfront Hotel opened its doors in 1991 and the area surrounding it has welcomed new offices, restaurants and residential development adding to its vitality and forging stronger links between the Inner Harbor and Fells Point. The former Allied Chemical site will be home to another new mixed-use development, adding to the area's activity. The Maritime Academy, operated by the Living Classrooms Foundation, is located on City Dock between Lancaster Street and the former Allied Chemical site. The Academy's operation is supported in part by an accessory marina with ninety-five transient slips. The Academy trains at-risk youth in ship building, woodworking, boat repair, and marina operations. All of these varied activities bring more people to the land and the waters of Inner Harbor East/Key Highway.

Congestion problems in Inner Harbor East must be minimized. Given the confined configuration of the Living Classrooms Maritime Academy, it is important that access to the main channel be preserved for all in the area. It is also essential that marina development in this area not impede navigation to and from the Inner Harbor basin. The Navigational Safety Maritime line along that edge of the harbor restricts marina development and thereby maintains adequate passage. This line should not be changed. Because this area is home to a large and growing number of City residents, it is also important to preserve water views and public access to the waterfront.

On the opposite shore, the Key Highway Urban Renewal Area is located just to the south of the Inner Harbor. The area begins at Federal Hill and proceeds south along the east side of Key Highway to the Fire Department repair yard on Key Highway, adjacent to the Industrial Museum. This area, formerly a shipyard, is now home to the Harborview development which includes a high-rise condominiums, mid-rise apartments and townhouses. North of Harborview, a new hotel with some residential units has been proposed and should be under construction in the next few years.

- 1) In order to maintain maximum possible width of the access channel to the Inner Harbor, the navigational line of sight must be preserved along the shoreline of Inner Harbor East. That line extends from the bulkhead line at the former Allied Chemical site, to the end of Pier 5.
- 2) The TAC reviewed and approved construction of up to five finger piers at the Harbor Point development on the former Allied Chemical site. The conditions of approval are:

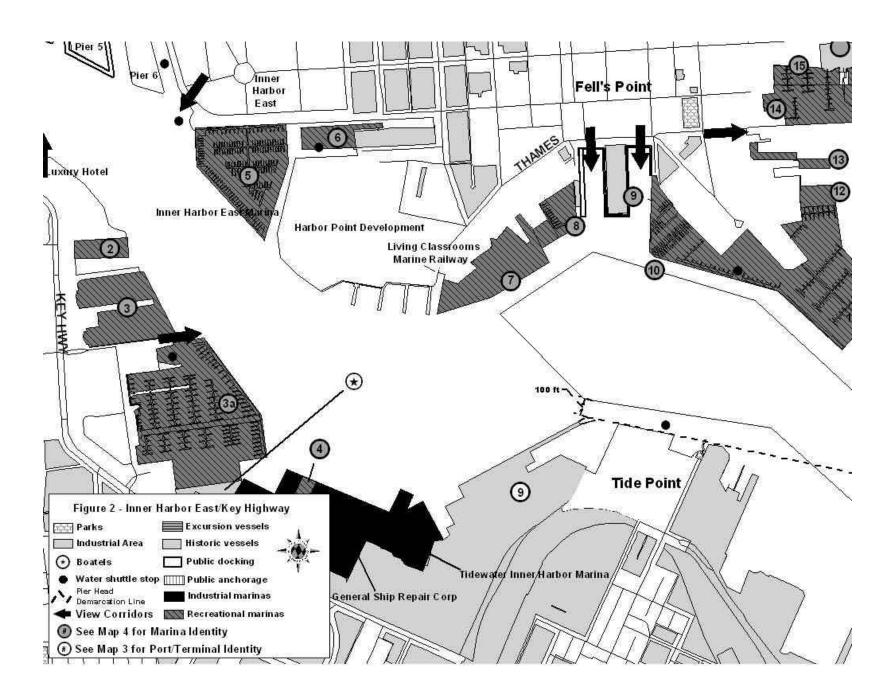
- ♦ The piers may not be used for dockage or leasing of long term space for recreational vessels; they must be reserved for larger vessels only. The TAC is not approving a recreational marina at this location.
- ♦ All boats or ships must vacate the piers for special events that involve fireworks or pyrotechnics. No people may occupy the piers during fireworks or pyrotechnic events. This is a safety requirement of the Baltimore City Fire Department. If buildings are approved for construction on piers at the Harbor Point site, the Planning Commission has the option of reconsidering this condition in relation to the new development.
- ♦ The pier design may not obstruct or impede access to the Living Classrooms Foundation marine railway.
- ♦ The developer must obtain zoning and other required approvals. This plan should not be interpreted as or used to indicate support or denial regarding the zoning change.
- The developer may not extend the piers beyond the pier-head-bulkhead line.
- 3) The northeastern shoreline of the proposed luxury hotel (known as Lot 1 or the Propeller Yard) must be kept free of marina development. This also preserves a clear field of vision for safe navigation into the Inner Harbor.
- 4) The TAC reviewed and approved an amendment at the Ritz Carlton development on Lot 2 north of Pier A. A thirteen-slip recreational marina was approved with the following conditions:
 - ♦ The marina must be no more than thirteen slips.
 - ◆ The marina design must follow Maryland Department of the Environment guidelines for safe docking space, taking into account final plans for the Harborview pier housing development.
 - ♦ The Promenade wall many not be used for "Mediterranean-style" tie-ups.
 - The parking requirements for the marina must be met on site.
- 5) Breakwaters and wave attenuators needed to protect marinas in this area must be constructed *within* the Maritime Master Plan designated marina lines. Mooring of watercraft on the outside of these structures shall not be permitted.
- 6) Adequate water access must be assured in the Inner Harbor East area. Any development that takes place along the shoreline of the Inner Harbor East Renewal Area should allow for the maintenance of an 80 foot navigation channel between it and the new Allied bulkhead. This will preserve access to the facilities at the Living Classrooms Foundation marina.
- 7) A bridge is proposed as part of the Allied redevelopment, called Harbor Point. This proposed structure was rejected by the TAC. However, the TAC understands that land use decisions and marine issues are sometimes at odds. Should the bridge be a necessary component of redevelopment, it must not impede boat traffic nor remove available slips. Any negative impact to the Living Classrooms Maritime Academy use of boats should be mitigated at another suitable location that is approved by the TAC.

Key Highway Industrial Area

Existing Conditions

The Key Highway Industrial Area begins just south of the Harborview development, running south and east along the shoreline. In the 1989 Marina Master Plan, this area was designated for industrial protection. The Industrial Protection designation was meant to protect this area from land speculation and encroachment by non-industrial uses while Harborview was developed. However, Harborview is about half developed and non-industrial uses have encroached on the western portion of this area, particularly the Museum of Industry, which owns two parcels. The City is considering selling the Fire Department repair yard; it is unlikely that an industrial use would be proposed for that site. In addition, the Downtown Sailing Center, a sailing education club for adults and children, has located on the Museum of Industry site, even though it does not comply with local zoning. To the east of these parcels, the General Ship Repair Corporation has invested in expansion and improvements, committing to staying in operation for some time. Tidewater Yacht Services has also expanded their industrial marina. (See Figure 2)

- 1) The TAC approved with conditions an application by the Downtown Sailing Center (DSC) to legitimize their marina at this location which has existed for many years. The DSC must change the zoning of the site to meet the conditions of the TAC. Until the zoning has been changed, the marina cannot legally exist because recreational marinas are not permitted in Industrial zones. Normally the TAC would not permit a recreational marina in an industrial zone, however this site is not used for industrial purposes and has been part of the Baltimore Museum of Industry for some time. It is unlikely this site will ever revert to an industrial use. The Baltimore Development Corporation and Planning Department have agreed to study the appropriate zoning for Industrial Retention Zone and the option of a Planned Unit Development (PUD) at the Museum of Industry and the area to the west.
- 2) The TAC also rejected an application for a twelve slip recreational marina at Tide Point. The marina was rejected because the approved Planned Unit Development (PUD) for the site specifically prohibits recreational marinas. If the PUD is successfully amended, the TAC will reconsider the application.
- 3) A 240 slip boatel was approved as part of the Harborview development in the 1989 Marina Master Plan. The boatel should be designed and operated so as to allow public access along the public promenade to link the Inner Harbor with the Museum of Industry.
- 4) For the remainder of this area, from General Ship Repair east, the Industrial Protection Zone remains intact.



Fells Point

Existing Conditions

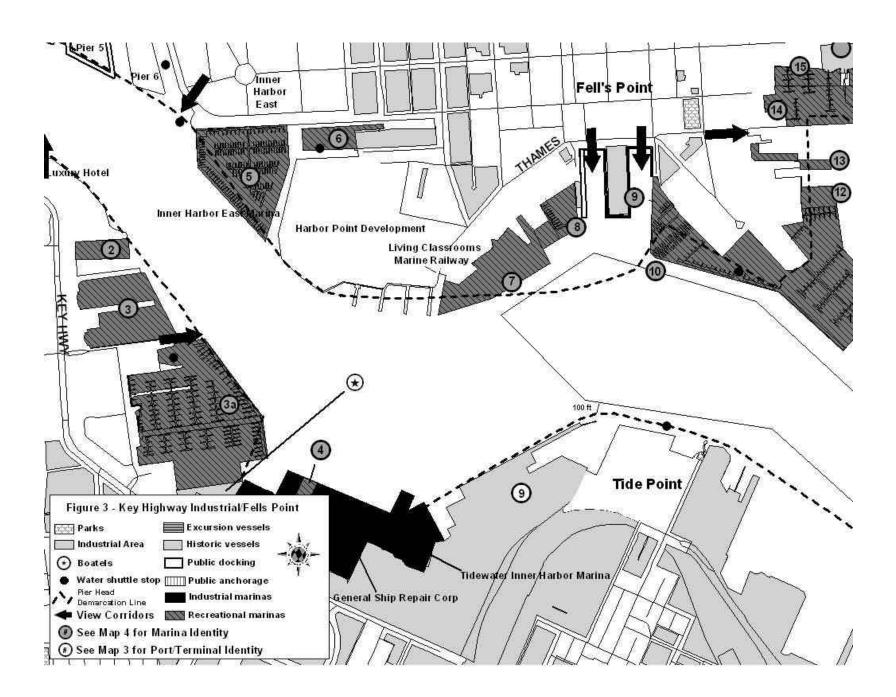
Fells Point is bounded by the former Allied Chemical site on the west and Chester Street on the east. Land side uses in Fells Point are predominately mixed residential and commercial. All small industrial pockets that remain from the days when this was a vital part of the shipping and shipbuilding industry are being redeveloped in keeping with the current character of the area. (See Figure 3)

Fells Point is home to seven marinas with a total of 749 slips. An additional 202 are permitted, bringing the potential total to 951 slips. The City-owned Recreation Pier is predominately used by tugs and barges under lease agreements with the City. (See Figure 5) This pier is in need of extensive repair and has only marginal use for City government today. The Department of Housing and Community Development has advertised this site for sale or lease, requesting development proposals from private entities.

The Fells Point Urban Renewal Plan establishes clear guidelines for development that preserve existing public access corridors and provide for new ones. Safety and navigation concerns in Fells Point include the need for access to and from Chester Cove (located near the intersection of Aliceanna and Boston Streets) and prescribed setbacks distances from the turning basins used by commercial shipping. Access to Chester Cove is limited due to the construction of marinas on both sides of the inlet. A 300-foot channel was established in the first Marina Master Plan to serve barges used by Arundel Corporation for its concrete batching operation. Though the operation no longer exists, the channel should remain to preserve the free flow of boat traffic to and from the existing and proposed marinas. Tie-ups outside of breakwaters and wave attenuators tend to narrow this channel. Impediment-free access for essential public safety services must be maintained in this area of the Harbor. In addition, maintaining the turning basin in the waters between Recreation Pier and the Tide Point and Domino Sugar facilities is essential for the continued safe operation of shipping and large vessel movements in the Harbor. This area also functions as an important "clear zone" for fireworks displays.

- Providing public access corridors to the water is essential to preserving Fells Point's unique waterfront character. Access and view corridors opened up by the last Marina Master Plan Revision and formalized in the Fells Point Urban Renewal Plan should be preserved.
- 2) Water-side safety in the area is also important. The 200-foot setback from the channel established in the last Plan revision should be preserved. This will protect the commercial shipping channel and turning basin off Fells Point.
- 3) The TAC reviewed and approved a proposal to construct a 52-slip recreational marina at the Union Wharf development at 901-915 S. Wolfe Street. This approval was given under the conditions that the proposed slips on the southeast edge of the property may not conflict with the approved marina at the property to the South (Swann's Wharf). In order to accomplish this, the distance from the edge of the piers at Union Wharf's property line must be a minimum of 1.5 times the length of the largest vessel to use these

- slips. A second condition requires that the parking requirements for the marina be met on site.
- 4) Redevelopment of the City's Recreation Pier should consider the historic use of the facility for tug boat and tour boat operations and include this as part of the redevelopment strategy.



Canton

Existing Conditions

Canton extends from Chester Street to the intersection of Clinton and Boston Streets. Canton is being redeveloped with mixed commercial and residential uses. The Canton Waterfront Park was constructed to provide an important public waterfront access area as well as a land-side buffer between this area and the Canton Industrial Area on Clinton Street. The park also accommodates the relocated facilities of the Baltimore City Police Marine Unit, City fireboats and trash skimmers.

Since the 1989 Marina Master Plan, the area of redevelopment in Canton has extended down Clinton Street to include the proposed Canton Crossing development, a mixed-use area that is proposed to include either a 200-slip marina or a cruise ship terminal. As part of this development proposal, the Department of Public Works and Marine Police facility may be relocated south on Clinton Street.

The redeveloped portion of the Canton shoreline has seven private marinas with a collective total of 1,186 marina slips. The largest of these is the Anchorage marina with 576 slips. All of the marinas that were proposed in the 1989 Plan have either been constructed or are permitted for development. An additional 200 slips were approved as part of the Canton Crossing development as part of this update to the Plan. With its 1,513 permitted slips, Canton hosts the largest concentration of recreational boat slips of any area in the City.

A key issue in Canton is the proximity of the Lighthouse Point and Canton Crossing recreational marinas to the industrial uses on Clinton Street. The industrial area piers receive ships and barges loading and unloading oil and other materials. Because of the physical proximity of the industrial facilities to the recreational facilities, their use of the open water overlaps. New proposals in this area must be given serious consideration to maximize navigational safety, and minimize conflicts between shipping and recreation uses.

Views from the Canton area shoreline have been greatly obscured by the large number of slips already constructed. Maintaining open water views from public access points along the promenade is a major concern in this area and has been addressed in the Canton Urban Renewal Plan. The Canton Waterfront Park is an important public access area with views across the water to Ft. McHenry National Monument. It is especially important to protect the views from this area. (See Figure 4)

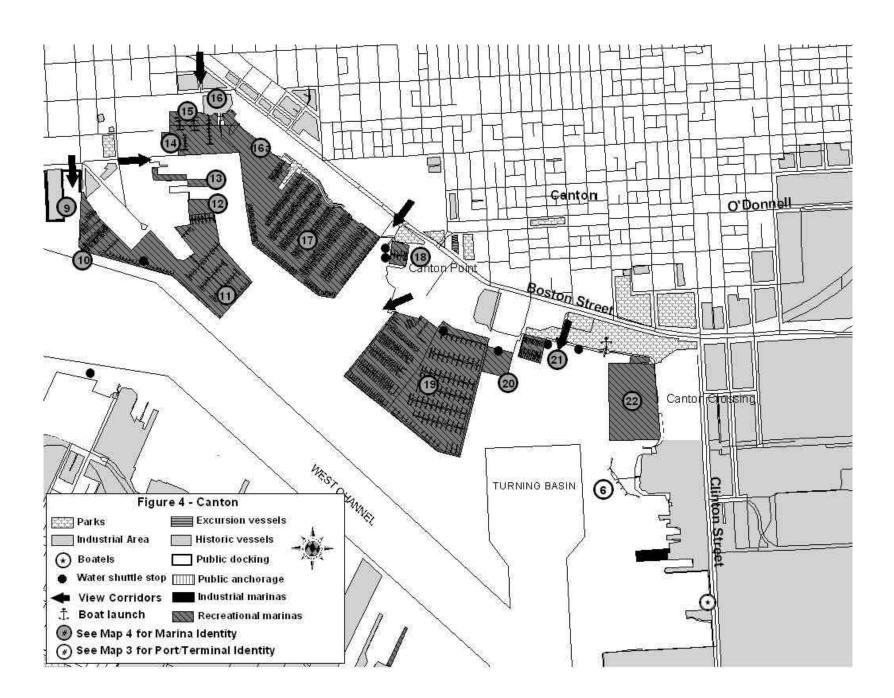
- 1) Preserve the industrial area from south of Canton Crossing to Seagirt Marine Terminal.
- 2) In addition to the view corridors established in the Canton Urban Renewal Plan, open water view protection areas must be preserved at Canton Point and the Canton Waterfront Park. (See Figure 4)
- 3) The TAC reviewed and approved a proposal by Canton Crossing to construct a 200-slip recreational marina *or* a cruise ship terminal with a 45-slip recreational marina. If the cruise ship terminal is constructed on this site, the TAC has approved extending the pier headline to increase the safety of docking large ships at this location. Under this scenario, a 45-slip recreational marina is also approved with the following conditions:

- a. The design of this marina may not conflict with the existing boat ramp at the Canton Waterfront Park. The marina must provide a minimum 100 foot clearance from the boat launch area to the nearest marina slip.
- b. The proposed marina design conflicts with the large storm drain outfall from Clinton Street. This storm drain carries significant volumes of flow during storm events, and will damage boats at the marina without special design considerations. The marina design must be revised to show that the facility will not interfere with the flow of storm water, and that the storm water will not damage the marina. This may require that the overall number of marina slips constructed be less than the number approved by this Master Plan.
- c. The location of the proposed 45 slip marina in relation to the storm drain outfall from Clinton Street has potential to create a sedimentation and trash problem at the marina. The flow of water from the storm drain may interact with the marina structure, creating an increase in sedimentation. In addition, the marina slips will likely trap trash from the outfall. The proposed marina design must take these issues into account.
- d. If the proposed marina displaces the existing facilities for the Department of Public Works and Marine Police, those facilities must be accommodated by the developer elsewhere. The new location must be approved by the City and the State Department of Natural Resources before construction of the new facility will be permitted. If the Department of Public Works and Marina Police remain, their water access easement must remain.

If a different location is chosen for the cruise ship terminal, then the 200-slip marina may be built at this location. The pier headline may not be extended for construction of the recreational marina. All other constraints outlined in a. through d. above must be incorporated.

- 4) A 950-foot clear area must be maintained between the end of the pier headline at Canton Cove and the nearest marina structure (except for existing slips in front of Tindeco and Canton Cove) to allow room for vessels using the Clinton Street industrial facility to maneuver and room for recreational vessels to access the marina slips and public boat launch. Adequate wave attenuators must also be installed as part of any addition to the existing marinas to protect small crafts in the marina.
- 5) Lighthouse Point Marina proposed to move their industrial repair operations and the dry storage marina from their facility to 1800 S. Clinton Street. The TAC had great concerns about this proposal because initially it would have displaced an active deep water shipping operation and created potential conflicts between recreational boaters and ship operators. The applicant modified the proposal to take these issues into account by maintaining the deep water shipping at the site, while moving the boat repair and dry storage to one side. They also will use trained, licensed personnel to deliver the boats back and forth from the boatel to Lighthouse Point, the public will not be allowed to pick up or drop off their boats at the site. Based on these proposed changes, the TAC approved a 160-unit dry storage marina with the following conditions:
- ♦ The Boatel and the proposed licensing of operators must be built into the zoning approval of the conditional use. The proposed changes would be enforced using zoning. The owner must meet the conditions or he will be in violation of zoning

- ◆ Trained, licensed personnel may only deliver the boats to Lighthouse Point. The general public may not pick up their boats at the Clinton Street facility. The form of training and licensing for the boat operators will be determined through research.
- ♦ The owner must keep records of the trained personnel working each day that can be monitored by the City to assure that appropriate personnel are delivering the boats.
- ♦ This will create a liability issue for surrounding shipping operations. The zoning code must make it clear that the burden for making the recreational boats at the boatel/repair facility safe from wave action and prop wash is the responsibility of the applicant, not the commercial shipping operators.
- ♦ A wave attenuator must be constructed on the north side of the commercial pier to protect recreational boats at the facility. Another wave attenuator may be required on the south side should a commercial shipping operation begin operation nearby. Plans for these facilities must meet the specifications of the USACE, MDE and the City of Baltimore, and must be certified by a licensed engineer.
- ◆ Parking for the boated must be provided, in accordance with zoning, on the site where the public is to pick-up boats.



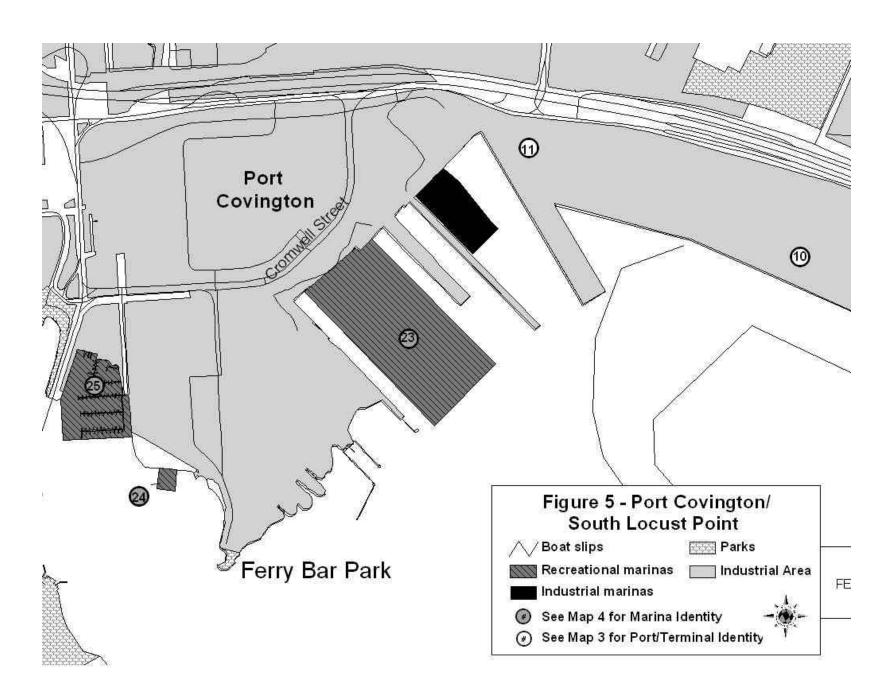
South Locust Point/ Port Covington

Existing Conditions

The Locust Point peninsula separates the Northwest Branch from the Middle Branch of the Patapsco River and extends from Hanover Street to Fort McHenry. The Locust Point waterfront is characterized by heavy industrial uses which are served by a considerable amount of commercial shipping. The Baltimore Yacht Basin is the only existing recreational marina on the South Locust Point peninsula. The marina, which hosts 197 slips, is located adjacent on the south shore of the Locust Point peninsula just east of the Hanover Street Bridge. Ferry Bar marina is approved for 34 slips, but none have been constructed.

The Port Covington Business Park has been redeveloped as a Sam's Club and Wal-Mart. An 800-slip marina was approved for construction in this area in the 1989 Plan, but was removed from the Plan in 1997 at the owner's request. Several large, deep-water piers still exist at this site, with room for an additional pier if constructed. A new application was made by Tidewater Yacht Services for a 400 slip recreational marina and boat repair facility. The TAC approved this application with conditions. (See recommendations below)

- 1) The TAC approved the construction of a 400 slip recreational marina at Port Covington with the following conditions:
 - ♦ No recreational boat slips may be constructed on the NE side of the old Pier 4 to protect ships docking in this location.
 - ◆ Slips must be constructed a minimum of 300 feet distance from the NE side of the old "Grain Pier".
 - ♦ Wave attenuator must be constructed on the northeast and southeast side of the marina to protect recreational vessels form prop wash caused by ships in the area.
 - ♦ Marina design must include sufficient clearance for docking of military "ready ships" at site.
 - Parking must be provided.
 - ♦ A boatel is also permitted at this site as approved in the 1989 Marina Master Plan. As recommended in that plan, the total number of slips at the site should not exceed the total number approved at the recreational marina. In this case four hundred is the total number of wet and dry slips permitted.



Middle Branch

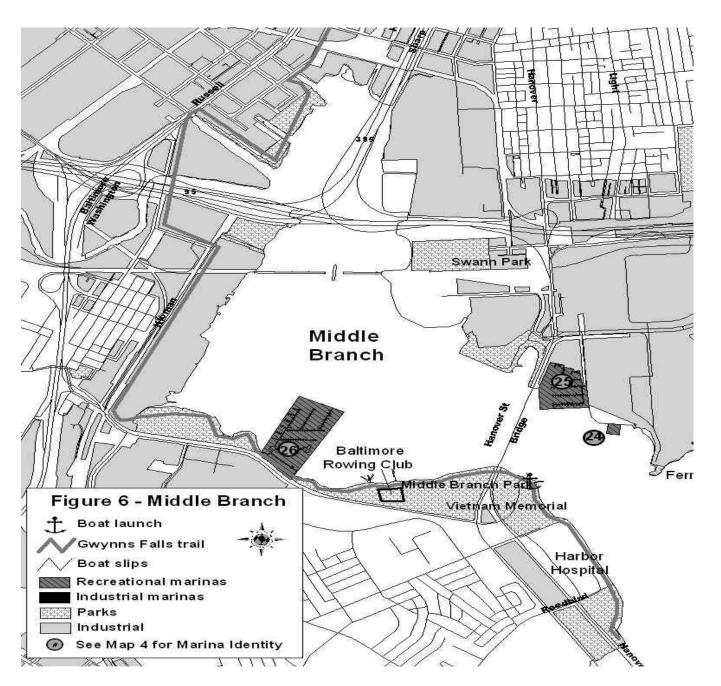
Existing Conditions

The Middle Branch portion of the study area includes the shoreline of the Middle Branch of the Patapsco River, west of the Hanover Street Bridge, as well as the shoreline between the bridge and Harbor Hospital Center. This area encompasses various uses from industrial to parks and public open spaces.

Middle Branch Park is a system of public open spaces along the shore including Waterview East and West, Westport ball field, Swann Park (Reedbird and Lookout Parks are outside of the area). Two public recreational boat ramps are located in the Korean War Memorial Park. The Water Resources Center/Rowing Facility provides facilities for crewing and sculling, as well as water quality and wildlife study. Middle Branch Marina, a privately-owned marina west of the Water Resources Center, has 340 in-water slips. The National Aquarium is working to relocate their animal care center to a waterfront site in front of the City's Central Garage, on the north side of the river. This redevelopment will include new wetlands and improved public access, complementing the Water Resources Center on the opposite shore. In addition, the Gwynns Falls Trail, a hiker/biker trail system extending fourteen miles from Gwynns Falls Leakin Park in west Baltimore, will connect over thirty neighborhoods and the Inner Harbor directly to the Middle Branch Park system.

The Middle Branch area is ecologically sensitive and provides an excellent opportunity for habitat restoration and passive public recreation; it is important for the City to preserve and enhance this character. The Middle Branch is shallow, consequently, motorized boating activity must be minimized in this area to provide favorable conditions for habitat enhancement as promoted by the Critical Area Management Program. (See Figure 6)

- 1) This area should be more actively utilized for passive boating such as canoeing, kayaking and sculling. Funds should be invested to install trash interceptors, restore wetlands and clean contaminated sediments. This will also protect the public investment that created the Water Resources and Rowing Center.
- 2) New or expanded recreational marinas are prohibited in this area unless functioning solely for boating education purposes.

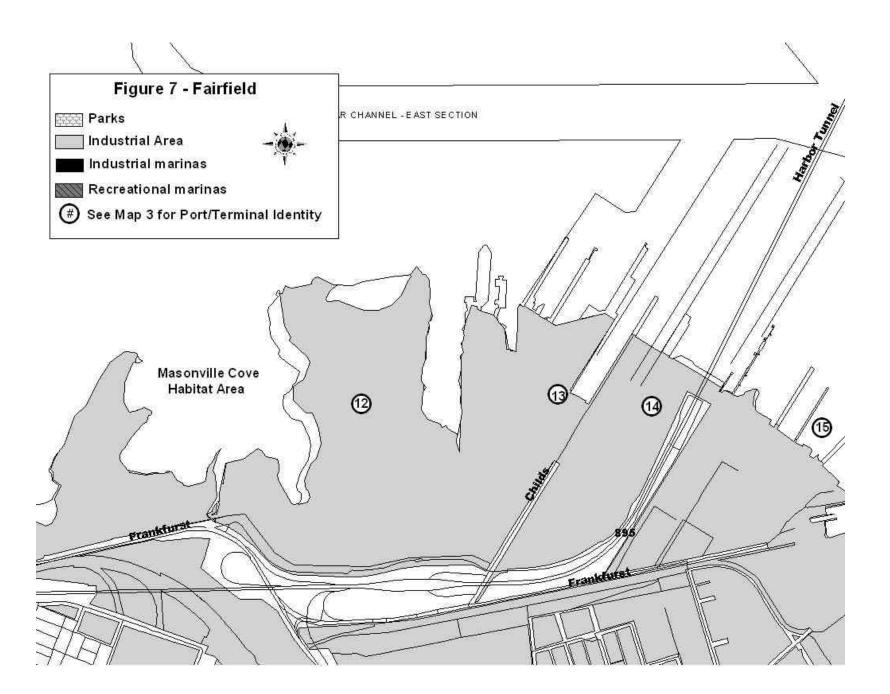


Fairfield

Existing Conditions

The Fairfield area includes the shoreline south of Reedbird Park that runs east and south to the Patapsco Waste Water Treatment Plant. From the treatment plant, the shoreline continues along the northern shore of Curtis Bay to the City boundary at I-695. The Fairfield shoreline is dominated by heavy industrial uses with one exception. The Masonville Cove, which lies between the Arundel Corporation and the Maryland Port Administration's expansion area on the Masonville peninsula, is a unique ecological resource. It functions as an historic waterfowl staging area, harboring thousands of shorebirds during the spring and fall migration. In fact, this area is one of the largest waterfowl staging areas in the State, and is an incredible ecological resource. The fact that it is located within City boundaries, just three miles from downtown Baltimore, makes this area truly unique. It offers excellent opportunities for environmental education programming and eco-tourism. The Maryland Port Administration once proposed filling this area for marine terminal uses, but has since pledged support to preserve this area, and may possibly utilize it for ecological restoration as mitigation for other developments. (See Figure 7)

- 1) Fairfield is ideal for industrial uses and shipping activity. Industrial uses should be directed to and protected in this area.
- 2) The TAC reviewed and approved a proposal to extend the pier headline at the Port Liberty and Atlantic Terminal Facilities, and to remove the previously-approved boatel facility at Port Liberty. (See Appendix II for more detail).
- 3) Preserve and enhance the Masonville Cove area as a waterfowl staging area and habitat protection area. Improve the shoreline and restore wetlands here.
- 4) Recreational marinas are prohibited in this area because of the large conservation of heavy industrial and shipping activity



Hawkins Point

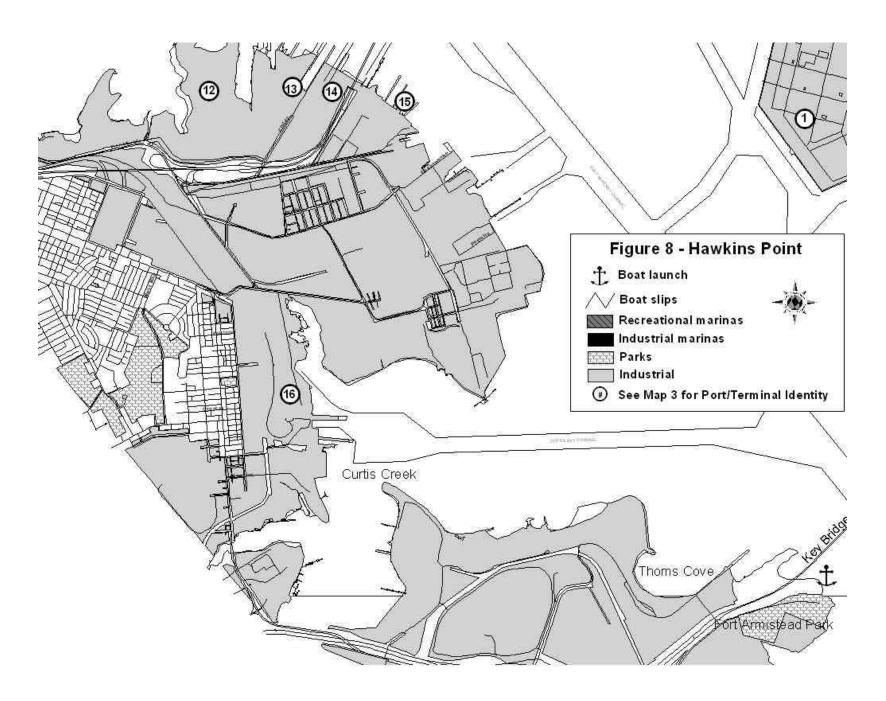
Existing Conditions

Hawkins Point begins on the eastern shore of Curtis Creek and the City boundary and proceeds along the shoreline eastward to Fort Armistead Park and the City boundary. The majority of the Hawkins Point shoreline is used for heavy industry.

Fort Armistead Park is located on the south side of the Key Bridge. Acquired by the City in 1927, the 46-acre park provides recreation opportunities to residents in the southern portions of Baltimore City and Baltimore and Anne Arundel Counties. The park offers a fishing pier and a free boat launch for public use. No marinas exist or are proposed on the Hawkins Point peninsula. (*See Figure 8*)

Recommendations

1) Recreational marinas should be prohibited in this area.



Appendix I Membership of Technical Advisory Committee

NAME	ORGANIZATION
Captain Mark Adams	MD Association of Docking Pilots
Lt. John Bitner	Baltimore City Marine Police
Ms. Kitty Bona	Harbor Cruises, Inc.
Mr. Robert Cuthbertson	MDE-Tidal Wetlands Division
Mr. William Cunningham	Living Classrooms Foundation
Mr. Bob Doedderlien	Baltimore City Fire Department
Mr. Bill Flohr	Inner Harbor East Marina
Captain Ron Edwards	Port Hazmat Officer
Mr. Ron Houck	US Coast Guard
Mr. Richard Hurley	Community Representative
Mr. Mark Kreafle,Sr	Maryland Port Administration
Ms. Fran Knauff	Inner Harbor Dock Master
Mr. Ed Kane	Harbor Boating, Inc
Mr. Kerry Lynch	General Ship Repair Corporation
Mr. Eldon Miller	Maryland Port Administration
Mr. Eric Nielsen	Association of MD Pilots
Mr. Bud Nixon	Rukert Terminals Corp.
	MD DNR - Waterway Improvement
Mr. Kenneth Ropp	Program
Mr. Ren Serey	MD Critical Area Commission
Mr. Paul Swenson	Moran Towing, Inc
Lt. Dulani Woods	US Coast Guard

Appendix II

2003 THE MARITIME MASTER PLAN PROPOSED AMENDMENT

Fourteen amendments were submitted for approval in the 2002 update of the Baltimore Harbor Master Plan. These amendments ranged from new proposals for recreational marinas to requests for approval for seaplane tours, landing in the Harbor. The Technical Advisory Committee (TAC) recognized that it was important to review each proposal according to its unique circumstances, but also to maintain a level of consistency across all applications. To assure each application was reviewed according to the same overarching criteria, a Proposal Justification Rating Form was developed with a scoring component. After extensive discussion, each proposal was ranked according to this rating system. The decision to approve or deny the application was then determined based on all of these components. The Justification Rating Form is attached as part of this Appendix.

Each proposed amendment is discussed below. The numbers of the amendment correspond to the numbers on the map in this appendix.

1) PORT LIBERTY/ATLANTIC TERMINAL

PROPOSAL: Breach the pier headline for pier extension to accommodate larger ships.

VOTE: Approve

REASON: This pier headline breach meets the criteria contained in section H. of the Master Plan. The proposal directly relates to the historic industrial uses at the site. The proposal does not negatively impact marine infrastructure or navigational safety and does not have a negative impact on public use of navigable waters.

2) TIDE POINT MARINA

PROPOSAL: Create twelve-slip marina at Tide Point office complex.

VOTE: Deny/Reconsider pending zoning change. If the update of Baltimore's Comprehensive Plan recommends that the zoning should be changed at this site, the applicant may re-apply for an amendment to this Plan.

REASON FOR DENIAL: Recreational marina's are not permitted in the approved Planned Unit Development (PUD) for the site. If the owner amends the PUD the Technical Advisory Committee can review the application. The TAC cannot approve a recreational marina that is not legally permitted by zoning. If the PUD is amended to permit a twelve slip marina, the TAC will reconsider the application.

3) TIDEWATER MARINA

PROPOSAL: Convert an industrial marina to an industrial/recreational marina and enlarge the marina.

VOTE: Deny recreational marina, approve industrial marina. If the update of Baltimore's Comprehensive Plan recommends that the zoning should be changed at this site, the applicant may re-apply for an amendment to this Plan.

REASON: The existing operation is an industrial marina on land that is zoned for industrial uses. Recreational Marinas are not permitted on industrially zoned land. The TAC cannot approve a use that is not legally permitted in the Zoning Ordinance. In addition, the marina is surrounded on two sides by industrial operations, and therefore is not compatible for a recreational marina.

4) LIBERTY SHIP JOHN BROWN PIER HEADLINE PIERCING

PROPOSAL: The organization Project Liberty Ship requested permission to build a thirty foot by 497 foot pier in a location where the existing pier headline is 282 feet from the landward edge of the property. This would extend the pier 215 feet into public waters and navigational space.

VOTE: Deny

REASON: The area proposed for the pier headline extension is within the Navigational Safety Zone of the Harbor, where the TAC determined that any loss of navigational space should be strongly discouraged. The proposed change did not meet the criteria for allowing changes to the pier headline in this zone. For a list of the criteria, see section H. The Technical Advisory Committee is supportive of Project Liberty Ship, and has agreed to work with them and the Mayor's Office to find an alternate location within the City for the ship.

5) DOWNTOWN SAILING CENTER MARINA

PROPOSAL: Legalize a pre-existing non-permitted forty slip marina in front of the Museum of Industry used by the Downtown Sailing Club; enlarge marina to expand onto property west of the facility with twenty slips.

VOTE: Approve the existing marina, but not the expansion, with the condition that the property owner obtain appropriate zoning changes to legally accommodate use. In addition, the zoning changes must be supported in the update of Baltimore's Comprehensive Plan. *REASON*: The marina exists on land that is zoned industrial. Recreational Marinas are not permitted on industrial zoned land. The TAC recommended that the Downtown Sailing Center work with the Museum of Industry to develop a PUD for the site to correct the situation.

6) RITZ CARLTON MARINA

PROPOSAL: Construct a thirteen-slip marina on the southeast side of the Ritz Carlton hotel PUD.

VOTE: Approve.

REASON: The proposal met all of the criteria for new recreational marinas as set forth in section D of this Plan.

7) WORLD TRADE CENTER PEDESTRIAN BRIDGE

PROPOSAL: Construct a large pedestrian bridge in front of the Baltimore World Trade Center into the Harbor to provide protection from terrorism to WTC building. *VOTE*: Deny

REASON: The Bridge proposal directly conflicts with the recommendations contained in this Master Plan, including: will severely reduce navigational space in a constricted, heavily trafficked area; block water views; 'fill' open water; and remove existing public mooring space.

8) NATIONAL AQUARIUM IN BALTIMORE

PROPOSAL A: Construct 40 foot by 10 foot wide pier that would shift the historic ships the Torsk and the Chesapeake Light Ship away from promenade wall to create space for emergency vehicles during the expansion construction of the Aquarium.

VOTE: Deny

REASON FOR DENIAL: This proposal would further reduce navigational space in the Inner Harbor which is against the recommendations of the Plan.

PROPOSAL B: Construct a small access pier for educational instruction at the water.

VOTE: Approve

REASON FOR APPROVAL: This small pier is acceptable because it is in and a non-navigable area of the harbor behind a bridge structure and is small enough that it does not create a 'fill' area or block views.

9) HARBOR POINT BRIDGE

PROPOSAL: Construct a bridge across the water from the end of President Street to the Harbor Point development site (formerly the Allied Chemical site).

VOTE: Deny

REASON: This proposal presents unique challenges because in involves designs for land-based safety that conflict with water-based infrastructure and safety. In this case, the water-based conflicts include removal of portions of one recreational marina and blockage of access for another. The impact on boating navigation is in conflict with the 1989 Plan, and the proposed bridge creates new safety hazards for boating in the Harbor. Any proposed bridge at this site would have to address these issues before it could be acceptable to the TAC.

10) HARBOR POINT PIERS

PROPOSAL: Construct five piers varying in length from 90 feet to approximately 212 feet.

VOTE: Approve with conditions

REASON: The project is compatible with surrounding marine infrastructure and land use, and will not create nautical safety hazards. The finger piers offer a fresh opportunity for docking visiting ships, and commercial craft outside of the Inner Harbor Basin, which is at times too congested. However, development of the piers will create potential conflicts with existing pyrotechnic special events such as fireworks, and is not suitable for a recreational marina. The TAC set conditions on the use of the piers to assure these safety concerns are met. These conditions should be incorporated into any PUD or changes in the Urban Renewal Plan amendments for the area. The conditions are as follows:

- ♦ Piers may not be used for long term leasing space for recreational vessels or as a recreational marina. Only short term public docking only is permitted.
- ♦ All boats/vessels must vacate the piers for special events that involve fireworks or pyrotechnics. No vessels or people may occupy the piers during fireworks or pyrotechnic special event displays for safety reasons. If buildings are approved for construction on piers at the Harbor Point site, the Planning Commission has the option of reconsidering this condition in relation to the new development.
- ♦ Pier design may not obstruct or impede access to the Living Classrooms Foundation Marine Railway to the east of the site.
- The developer may not extend the piers beyond the pier-head-bulkhead line.

11) UNION WHARF RECREATIONAL MARINA

PROPOSAL: Construct a 52 slip recreational marina as part of the Union Wharf mixed-use development in Fells Point.

VOTE: Approve.

REASON: This marina meets the guidelines for creation of new recreational marinas in section D of the Plan. It also met the criteria found in the Rating form.

12) MARINE AIR ADVENTURES

PROPOSAL: Create a seaplane tourism operation from the Harbor that uses the Harbor Channel for take-off and landing.

VOTE: Deny

REASON: The use is not compatible with surrounding marine infrastructure, and creates a potential safety hazard for commercial and recreational boating during its take-off and landing. When the plane takes off and lands, it must reach speeds of sixty m.p.h., which greatly exceeds the six knot speed limit enforced in this area for safety. The proposal is not consistent with the goals of the 1989 Plan due to conflicts with commercial shipping

operations. The tourism nature of the operation is not compatible with industrial shipping, and the noise from the aircraft would have a negative impact on homes in the vicinity of the air tour.

13) CANTON CROSSING MARINA

<u>PROPOSAL A</u>: Construct a 200-slip marina in front of the proposed Canton Crossing Planned Unit Development on Clinton Street.

VOTE: Approve with conditions.

REASON: The marina is permitted by zoning in the approved Planned Unit Development (PUD) for the site. The marina meets guidelines for recreational marinas presented in the Plan (*see page19*) and the criteria listed in the Project Justification rating. To assure that the proposed marina is designed to meet the TAC's criteria, the following conditions were placed on the design:

- The developer must meet marina parking requirements on-site.
- ♦ Must design the marina to address storm water flow issues at the storm drain at the corner of Boston and Clinton Streets.
- ♦ Must accommodate the needs of the Marine Police and DPW boats at another suitable site if the marina design displaces these facilities.

<u>PROPOSAL B</u>: Construct a cruise ship terminal with a forty-five slip marina as part of the Canton Crossing PUD.

VOTE: Approve marina with conditions, support concept of cruise ship terminal.

REASON: The cruise ship terminal works well at the site based on the review of the TAC and is approved in the City PUD for the site. A cruise ship terminal at this location also helps protect deep water for larger ships.

CONDITIONS: The conditions for construction of the 45 slip marina in association with the cruise ship terminal are as follows:

- ♦ The design of this marina may not conflict with the existing boat ramp at the Canton Waterfront Park. The marina must provide a minimum of one-hundred feet clearance from the boat launch area to the nearest marina slip.
- ♦ The marina design conflicts with the large storm drain outfall from Clinton Street. This storm drain carries significant volumes of flow during storm events, and will damage boats at the marina without special design considerations. The marina design must be changed to show that the facility will not interfere with the flow of stormwater nor will the stormwater damage the marina.
- ♦ The location of the proposed marina in relation to the storm drain outfall from Clinton Street may create a sedimentation and trash problem at the marina. The flow of water from the storm drain may interact with the marina structure creating an increase in sedimentation. In addition, the marina slips will likely trap trash from the outfall. The proposed marina design must take these issues into account.

- ◆ If the proposed marina displaces the existing facilities for the Department of Public Works and Marine Police, those facilities must be accommodated elsewhere. The new location must be approved by the City.
- ♦ The Technical Advisory Committee also approved the extension of the pier head line for the cruise ship terminal because this design will increase the safety of docking large ships at this location. The pier head line may not be extended for construction of a recreational marina.

14)EAST HARBOR MARINE REPAIR & DRY STORAGE MARINA FACILITIES

PROPOSAL: Create a Dry Storage Marina/Boatel on a pier on Clinton Street at an active deep-water shipping location. The proposed use would maintain an active deep water shipping birth, placing the dry-storage marina and repair facilities on the south side of the pier.

VOTE: Approve with Conditions

REASON: The use maintains the active deep water shipping operation at the site, while creatively solving the conflict between recreational boats and commercial ships by using trained, licensed delivery personnel. The conditions imposed for approval of the facility are listed in Section 3, Canton.

15)EAST HARBOR MARINE HARBOR HELIPORT

PROPOSAL: Place a heliport on the end of an industrial pier on Clinton Street.

VOTE: Deny

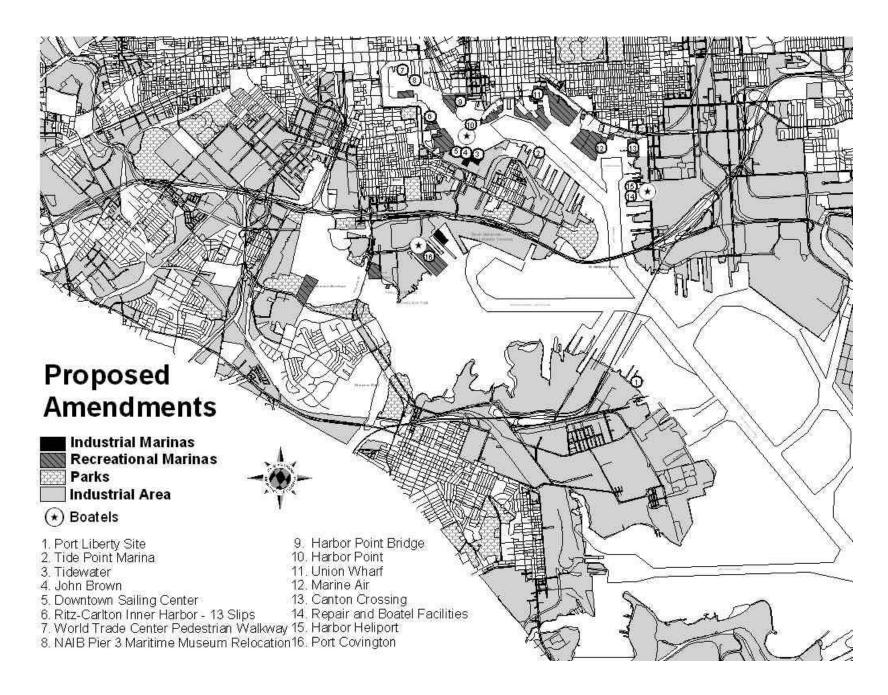
REASON: The TAC determined that the heliport would displace an active deep-water shipping operation and remove the piers from use as a deep-water shipping site. A heliport cannot operate at an active shipping berth. The Master Plan has consistently stated that deep water shipping locations must be preserved.

16) PORT COVINGTON RECREATIONAL MARINA

PROPOSAL: Re-establish a 400 slip recreational marina designated at the site originally in the 1989 Plan.

VOTE: Approve with Conditions

REASON: The TAC determined that a recreational marina had previously been approved at the site and should be given serious consideration again. However, due to changes in land uses at the site and nearby, restrictions and conditions were needed for the marina's design to assure maximum navigational safety. The details of the conditions are included in Section 3, Port Covington/South Locust Point.



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